Manitoba

ANNUAL REPORT

1983 - 1984

Manitoba
Highways and
Transportation

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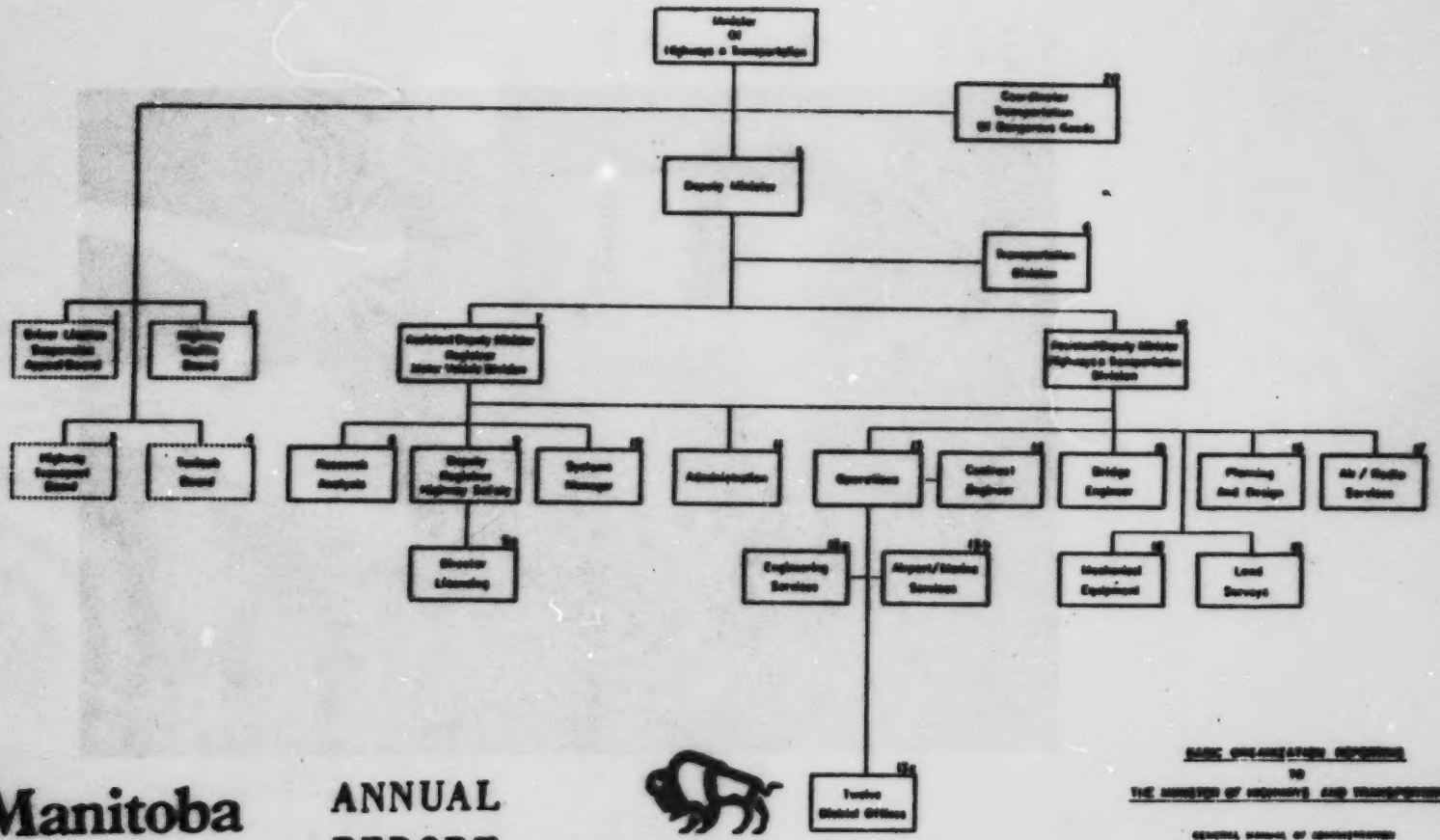

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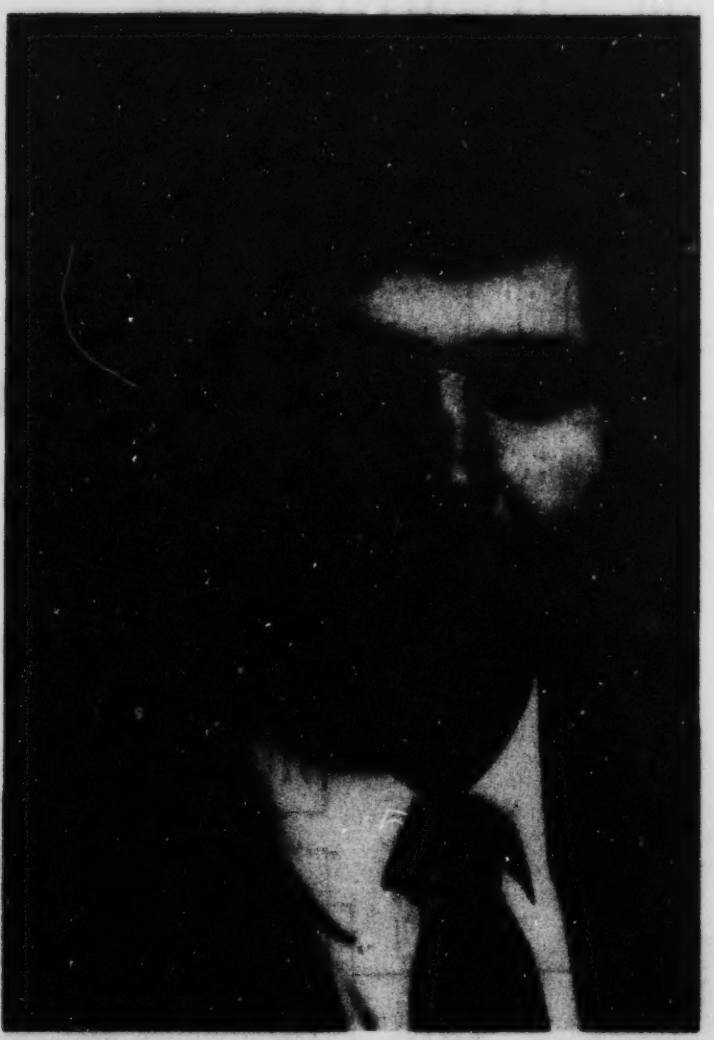

HON., JOHN S. FLOHMAN
Minister of Highways and Transportation

The Honourable Pearl McGonigal,
Lieutenant-Governor of Manitoba,
235 Legislative Building,
Winnipeg, Manitoba.

May it Please your Honour:

I have the privilege of presenting for the information of Your Honour the Annual Report of the Department of Highways and Transportation for the fiscal year ending March 31, 1984.

Respectfully submitted,

John S. Plohman
Minister

TO THE HONOURABLE MINISTER OF HIGHWAYS AND TRANSPORTATION

I am pleased to present this Annual Report which outlines the Department's accomplishments during the fiscal year which ended March 31, 1984.

Major projects such as a location study for a new bridge near Selkirk, the emergency reconstruction of one of the columned piers of the Symington Yard Overpass damaged by a derailed C.N.R. engine, and the continuation of the four-laning of Highway No. 1 illustrate the broad range of activities that are necessary in planning, constructing and operating the Province's transportation facilities.

The format for this Annual Report has undergone some revisions from that of previous years. More emphasis has been placed on explaining how the Department is structured to deliver its various programs. The descriptions of the various activities which take place in the Department have been consolidated in the front part of the Report, while its accomplishments in terms of project implementation are compiled in statistical table form at the back of the Report.

This document fulfills the reporting requirements laid down in the Highways and Transportation Act.

Respectfully Presented

Boris Hryhorczuk, P. Eng.,
Deputy Minister

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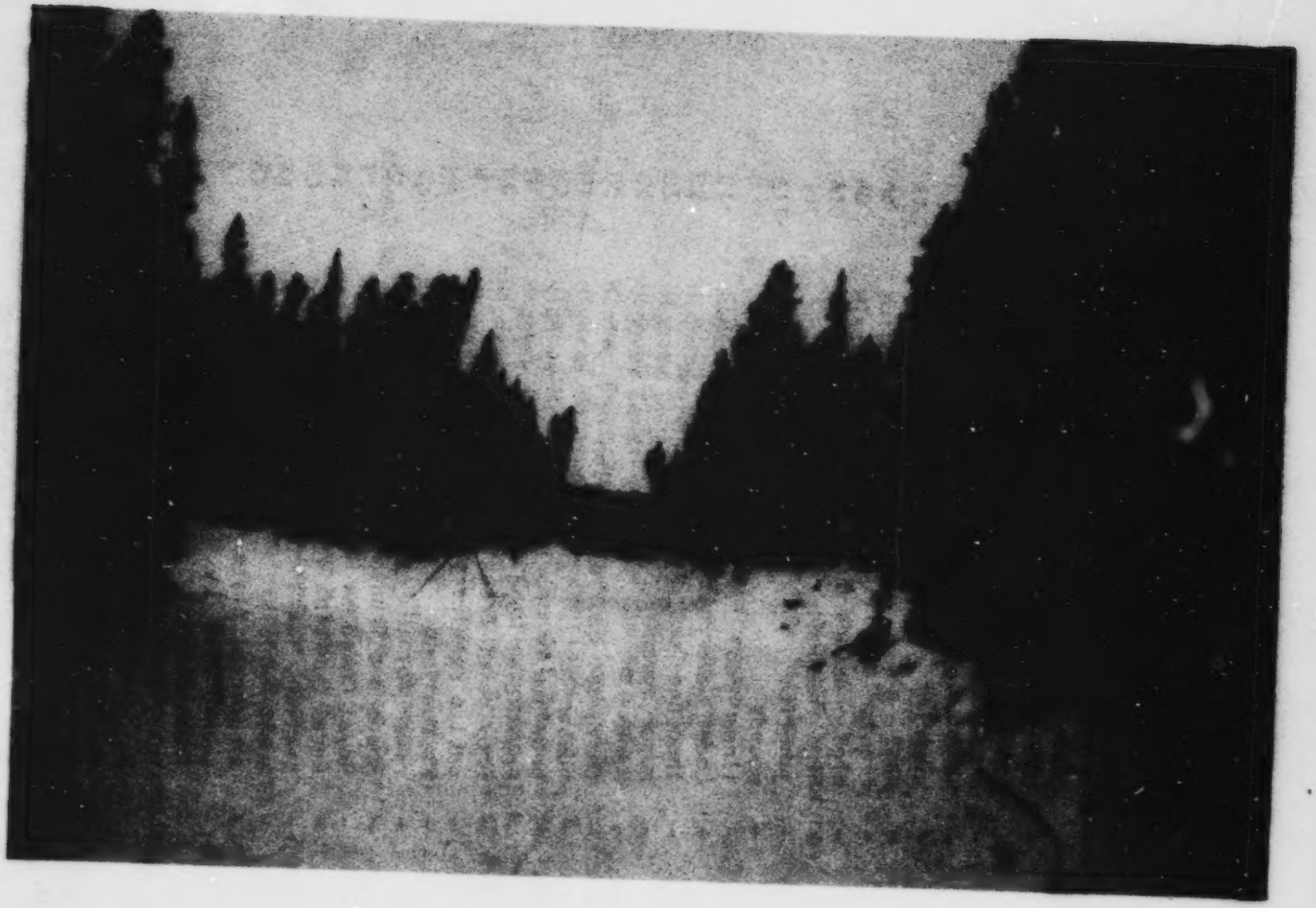
ABBREVIATIONS

A.C.	-	asphalt cement
Bdry.	-	boundary
C.N.R.	-	Canadian National Railway
C.P.R.	-	Canadian Pacific Railway
C.F.	-	cable ferry
CMP	-	corrugated metal pipe
CT	-	commercial truck
CR.	-	credit
CWT	-	hundredweight
Dist.	-	district
E.	-	east
E.D.	-	Electorial Division
HPS	-	high pressure sodium
H.F. (SSB)	-	high frequency (single side band)
Jct.	-	junction
lbs.	-	pounds
L.F.	-	linear foot
L.G.D.	-	Local Government District
M.fbm	-	thousand foot board measurement
M.V.	-	motor vessel
N.	-	north
N.E. 1/4	-	northeast quarter section
No.	-	number
Prov.	-	province or provincial
P.R.	-	Provincial Road
P.T.H.	-	Provincial Trunk Highway
P.S.V.	-	public service vehicle
Rec.	-	recreational
R.L.	-	river lot
R.T.A.C.	-	Roads and Transportation Association of Canada
R.C.M.P.	-	Royal Canadian Mounted Police
R.M.	-	Rural Municipality
Sec. 34-24-12W.	-	Section, Township, Range, West
S.	-	south
S.P.C.M.P.	-	structural plate corrugated metal pipe
sq.ft.	-	square feet
T.C.H.	-	Trans-Canada Highway
T.T.	-	treated timber
U.V.D.	-	Unincorporated Village District
U.S.A.	-	United States of America
V.H.F. (F.M.)	-	very high frequency (frequency modulation)
V.H.F. (A.M.)	-	very high frequency (amplitude modulation)
W.	-	west



Split Lake, Winter

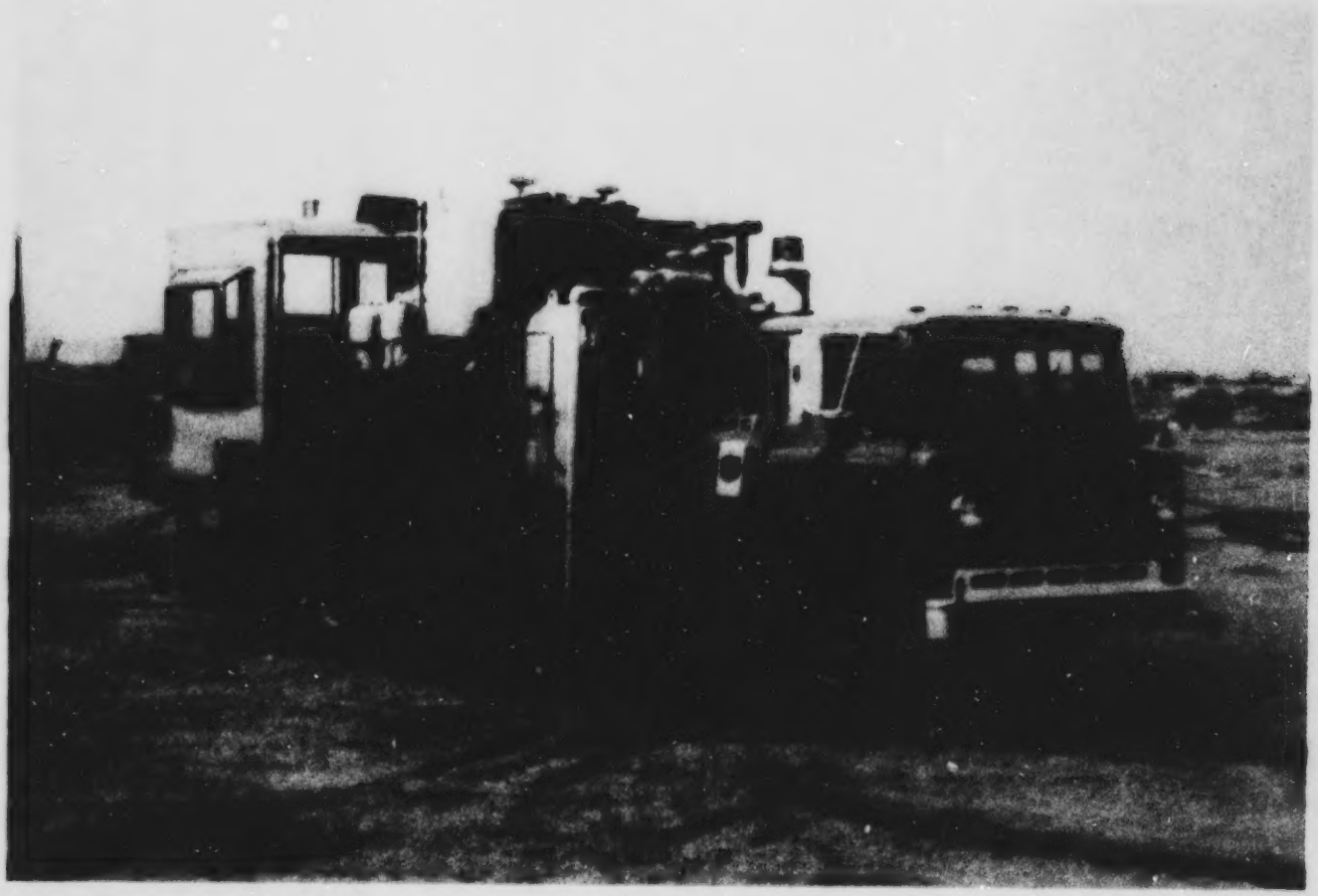
CONSTRUCTION

Construction expenditures, normally about 50%, dropped to 44.5% of total Department spending with a total program of $85,376,007.04. This represents a wide variety of activity from preliminary survey and land acquisition through grading and bridge construction to finished paved surfaces.

Several grading contracts extending the divided highway service on major highways were undertaken. These include the Trans Canada Highway from Alexander to Oak Lake, Highway No. 59 north of Provincial Road No. 508, and Highway No. 75 south of Winnipeg. Other major highways upgraded were P.T.H. No. 16 (Yellowhead Route) from the Trans Canada Highway to MacDonald, P.T.H. No. 7 south of Teulon and P.T.H. No. 10 north of the Peace Gardens.

In the northern areas the year marked the opening of the newly constructed Thompson to Gillam road to bus traffic. The improvements to P.T.H. No. 10 near Flin Flon continued with construction on the portion north from Cranberry Portage. The rock widening and asphalt surface treatment on P.R. No. 304 from Pine Falls to Manigotagan, a project which has been continuing for several years is now nearing completion.

The construction program was implemented using 300 Contracts ranging in size from a few thousand dollars to over 2 million dollars. Three hundred and fifty miles of bituminous pavement and one hundred twenty five miles of asphalt surface treatment are among the accomplishments set out in detail in tables C1 to C6.

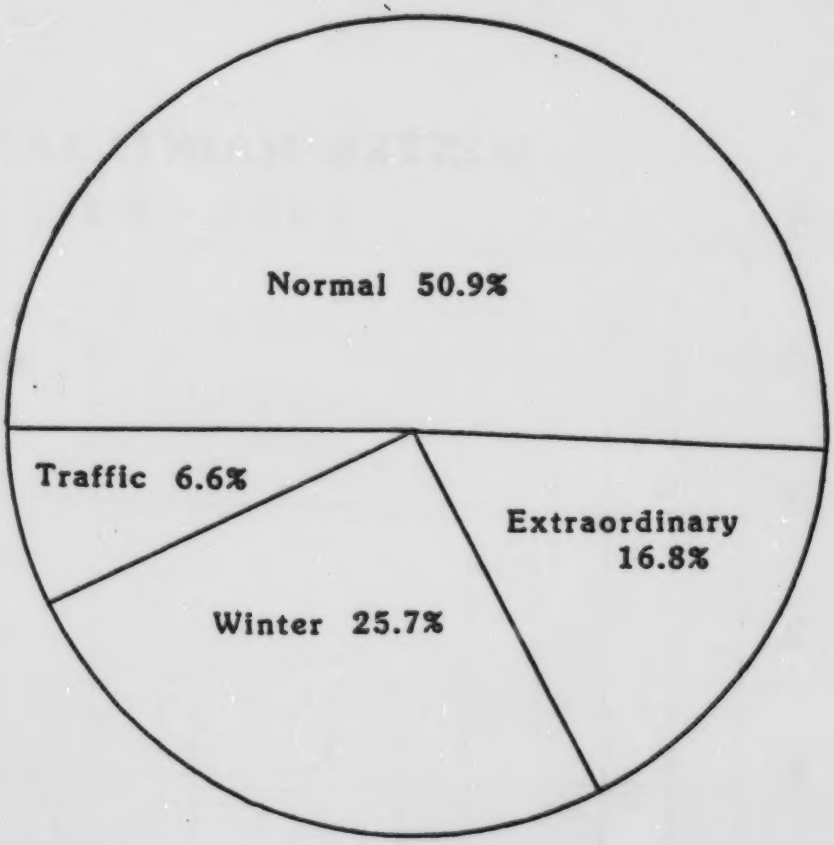


New Truck mounted center line marking machine, based at Brandon

MAINTENANCE

The total Maintenance Expenditure for 1983-84 was $48,030,703.19.

The percentage breakdown is shown in the following chart.

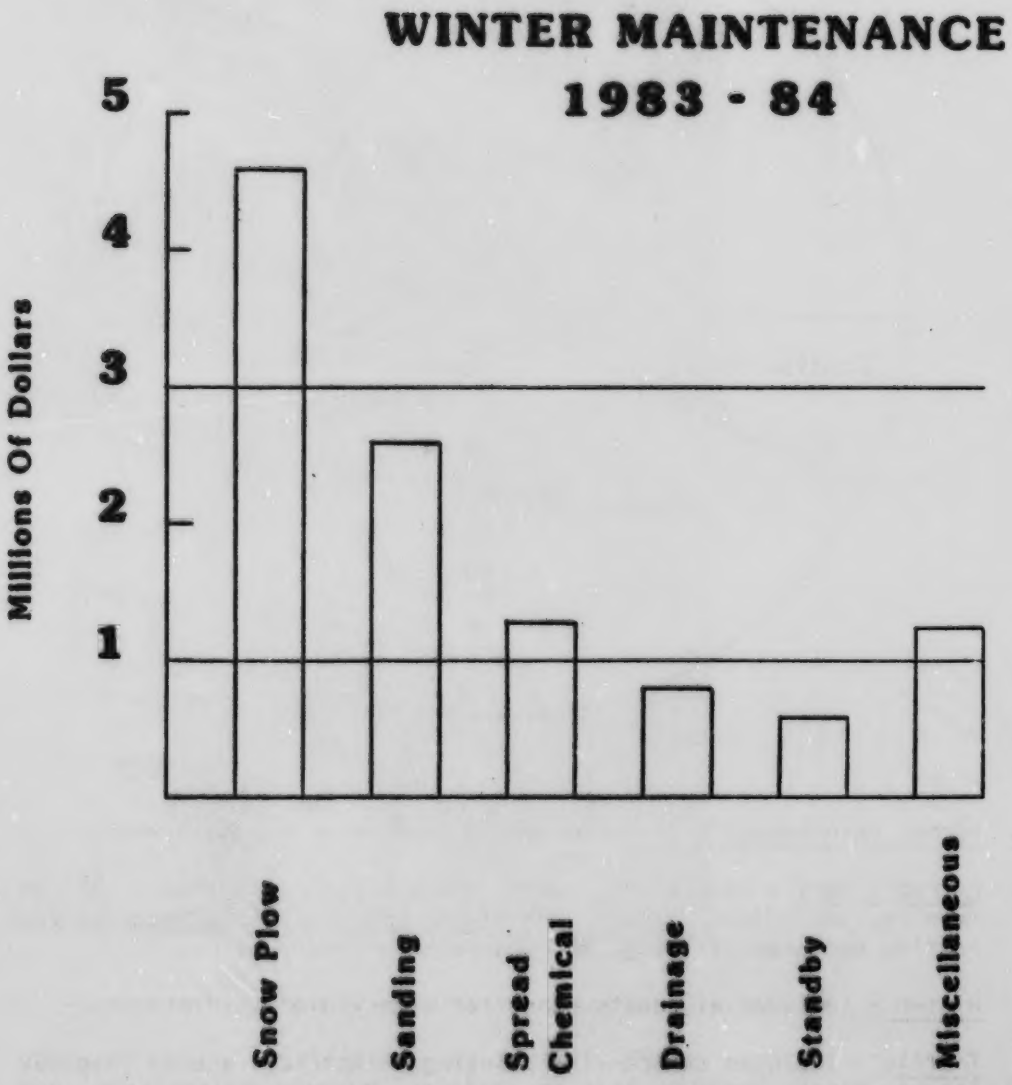


Normal Maintenance - is the on going routine summer maintenance.

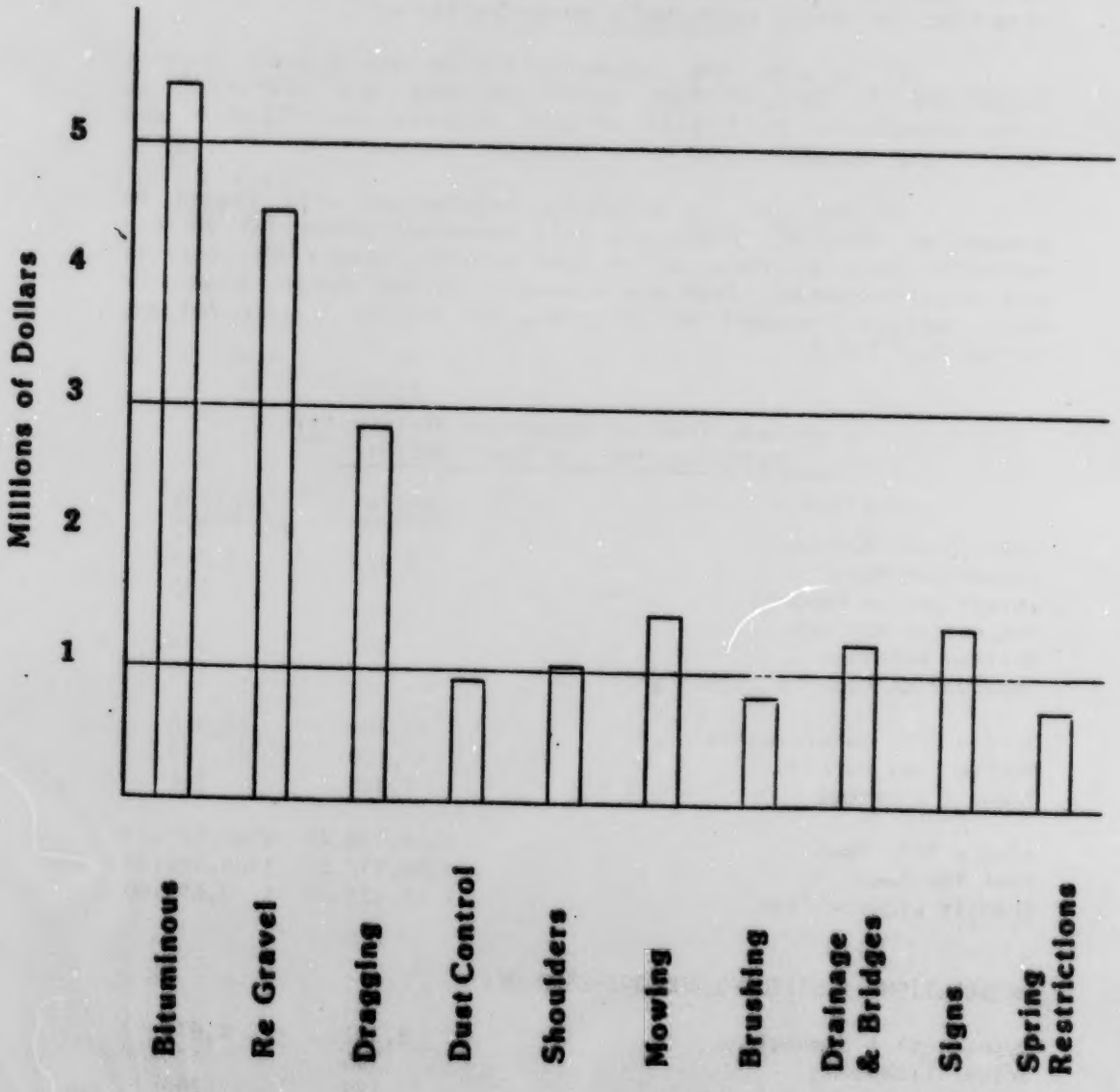
Extraordinary - covers seal coats, heavy bituminous repairs, bridge repairs, additional traffic gravel, up-grading maintenance yards, routing and crack filling, and concrete surface repairs.

Winter - includes all costs connected with winter maintenance.

Traffic - includes centre-line painting, electrical energy (highway illumination), traffic signals, railway crossing maintenance, and experimental traffic control devices.


WINTER MAINTENANCE
1983 - 84
Millions Of Dollars
5
4
3
2
1
Snow Plow
Sanding
Spread Chemical
Drainage
Standby
Miscellaneous

NORMAL MAINTENANCE
1983 - 84



TRAFFIC INSPECTION

The province of Manitoba is divided into five enforcement regions, with each region having a Supervisor responsible for the operation of at least one major Highway Traffic Inspection Station, as well as four portable electronic scales.

The portable scales are capable of weighing in high volume traffic stationed at various predetermined sites throughout the province. The portable MD400 Wheel Weighers are used by inspectors when patrolling their respective areas to ensure that motor vehicles are operating within the allowable weights and dimensions as specified in the Highway Traffic Act.

It is also the responsibility of the Highway Traffic Inspectors to ensure that motor carriers are operating in compliance with Part VIII of the Highway Traffic Act and regulations imposed by the Motor Transport Board.

In addition to enforcing regulations with regard to commercial vehicles, inspectors file temporary commercial vehicle authority reports, issue motive fuel permits, single trip permits and trip insurance. They are empowered to lay charges under the Motor Vehicle Transport Act (Canada), the Highway Traffic Act and Motive Fuel Tax Act.

Highway Traffic Inspection Division
Statistics for the Year 1983/84

	1982/83	1983/84
Court Order Notices		572
Inspection Reports	3,920	3,249
Investigation Reports		382
Inspection Notices	1,167	
Written Warnings	387	656
Observation Reports Investigated		156
Single Trip Certificates	15,495	13,910
Motive Fuel Permits	12,120	11,055
Transit Licences	1,423	546
Single Trip Fees	$504,786.48	$546,987.63
Fuel Tax Fees	$218,772.66	$268,489.00
Transit Licence Fees	$ 16,455.00	$ 7,851.00
PROSECUTIONS INSTITUTED AND DISPOSED OF:		
Overweight & Dimensions	2,302	1,676
Driver Licencing	106	155
Faulty equipment & Safety	129	266
Authority & Vehicle Licencing	243	292
	2,780	2,389

	AUTHORITY & VEHICLE LICENCE	FAULTY EQUIPMENT & SAFETY	DRIVER LICENCING	OVERWEIGHT & DIMENSIONS
PROSECUTIONS	292	266	155	1,676
WRITTEN WARNINGS	68	192	70	323
TOTAL	360	458	225	1,999

BREAKDOWN - 1983/1984

Total Reports
3,249

Total Prosecutions
1,817

Total Warnings
653

Total Letters

Increase	57
Axle	38
CT	33
	128

Total Filed
651

Total Investigation Reports
382

Total Prosecutions
157

Total Warnings
3

Total Letters (PSV)
22

Total Investigated
200

REPORTS - 1983/1984

		PROSECUTIONS	WARNINGS	TOTAL
WEIGHTS & DIMENSIONS				
62	In excess of height, length & width requirements	85	13	98
63(3)	Axle overload	861	203	1064
63(5)	More than one axle assembly	1		1
63(12)	Axle overload on special highways permit	23	1	24
82(2.1)	Axle overload on restricted roads	190	58	248
88.2	Overload on restricted bridge	2	2	4
83(8)	Violation of special highways permit	64	19	83
166(2)	In excess of registered gross vehicle weight	61	27	88
		1287	323	1610
PSV				
258	Operate without a certificate	15		15
285	Solicitation of passenger traffic	77	2	79
289(b)	Violation of PSV	62	1	63
290	Violation of condition of certificate	154	3	157
FAULTY EQUIPMENT & SAFETY				
33	Tail lamps inoperative		2	2
38(3)	Produce flags & flares		9	9
39(2)	Brakes on trailer	6		6
40(1)	Mirror equipment		2	2
46	Splash guards	6	4	10
47.1	Windshield	14	4	18
50(1)	Name and address - T & F plated vehicles	7	17	24

		PROSECUTIONS	WARNINGS	TOTAL
FAULTY EQUIPMENT & SAFETY (Cont'd)				
56(1)	Red flag or reflector	7	2	9
56(2)	Uncontained load	10	1	11
57(1)(h)	Towing requirements	20	1	21
186	Faulty equipment	85	119	204
287(2)	Name & address - PSV & CT plated vehicles	27	31	58
		182	192	374
LICENCING (Drivers)				
81	Comply with traffic control device	5		5
82(5)	Vehicles by-passsing the scale	41	38	79
127.1	Comply with traffic control device	3		3
164	Driver licence required	15	8	23
279	Age limit for PSV driver		1	1
23	No drivers licence			
		64	47	111
	(Vehicles)			
6(1)	Registration of motor vehicle & trailer	12		12
6(9)	Registration card	9	19	28
7(1)	Number plates required	3	5	8
7(2)	Number plates on motor vehicle	27	11	38
7(3)	Validation sticker	7	1	8
13(b)	Fail to report change of class	1		1
14(4)	Business vehicle of non resident	3	21	24
15(1.1)	Misuse of repair plate	1		1
163	Illegal use of number plates	4		4
169(3)	Use of farm plates	5	6	11
207(1)	Misuse of dealer permit			
		72	63	135

		PROSECUTIONS	WARNINGS	TOTAL
RULES OF THE ROAD				
122(2)	Right of way when entering a highway	1		1
171.1	Dangerous riding			
182	Cleaning of livestock vehicle	1		1
190	Fail to display dangerous goods sign			
194(1)(a)	Deposit rubbish on a highway			
		2		2
FAIL TO COMPLY				
24(1)(a)	Fail to have an accompanying driver	2		2
67(6)(b)	Comply with order of peace officer	2		2
71(2)	Comply with order of peace officer	5		5
185	Radar detector			
200(2)	False statement			
201(5)	Drive while disqualified	4		4
		13		13
DRIVER FAIL TO PRODUCE				
25(10)	Fail to produce driver's licence	7	19	26
207(1)	Fail to have dealer permit			
271	Fail to have in possession permit, licence or cert.	5	3	8
286(1)	Fail to produce bill of lading	7	1	8
		19	23	42
CT				
291	Licence from the transport board for commercial truck	24	2	26
	TOTALS	1817	653	2470

DATE: March 18, 1983 to March 1, 1984

COURT ORDER NOTICES - 1983/1984

		PROSECUTIONS	WARNINGS	TOTAL
WEIGHTS & DIMENSIONS				
62	In excess of height, length & width requirements	43		43
63(3)	Axle overload	307		307
63(5)	More than one axle assembly			
63(12)	Axle overload on special highways permit	11		11
82(2.1)	Axle overload on restricted roads			
88.2	Overload on restricted bridge	1		1
83(8)	Violation of special highways permit	19		19
166(2)	In excess of registered gross vehicle weight	8		8
		389		389
PSV				
258	Operate without a certificate	1		1
285	Solicitation of passenger traffic			
289(b)	Violation of PSV	16		16
290	Violation of condition of certificate	1		1
		18		18
FAULTY EQUIPMENT & SAFETY				
33	Tail lamps inoperative			
38(3)	Produce flags & flares			
39(2)	Brakes on trailer	6		6
40(1)	Mirror equipment	6		6
46	Splash guards	8		8
47.1	Windshield			
50(1)	Name and address - T & F plated vehicles			

		PROSECUTIONS	WARNINGS	TOTAL
FAULTY EQUIPMENT & SAFETY (Cont'd)				
56(1)	Red flag or reflector	4		4
56(2)	Uncontained load	3		3
57(1)(h)	Towing requirements	2		2
186	Faulty equipment	54		54
287(2)	Name & address - PSV & CT plated vehicles	1		1
		84		84
LICENCING (Drivers)				
81	Comply with traffic control device	1		1
82(5)	Vehicles by-passsing the scale	12		12
127.1	Comply with traffic control device	2		2
164	Driver licence required	17		17
279	Age limit for PSV driver			
23	No drivers licence	1		1
		33		33
	(Vehicles)			
6(1)	Registration of motor vehicle & trailer	4		4
6(9)	Registration card	11		11
7(1)	Number plates required	4		4
7(2)	Number plates on motor vehicle	1		1
7(3)	Validation sticker			
13(b)	Fail to report change of class			
14(4)	Business vehicle of non resident			
15(1.1)	Misuse of repair plate			
163	Illegal use of number plates			
169(3)	Use of farm plates			
207(1)	Misuse of dealer permit	2		2
		22		22

		PROSECUTIONS	WARNINGS	TOTAL
RULES OF THE ROAD				
122(2)	Right of way when entering a highway	1		1
171.1	Dangerous riding	6		6
182	Cleaning of livestock vehicle			
190	Fail to display dangerous goods sign			
194(1)(a)	Deposit rubbish on a highway			
		7		7
FAIL TO COMPLY				
24(1)(a)	Fail to have an accompanying driver	1		1
67(6)(b)	Comply with order of peace officer			
71(2)	Comply with order of peace officer	3		3
185	Radar detector	1		1
200(2)	False statement	3		3
201(5)	Drive while disqualified	1		1
		9		9
DRIVER FAIL TO PRODUCE				
25(10)	Fail to produce driver's licence	1		1
207(1)	Fail to have dealer permit			
271	Fail to have in possession permit, licence or cert.	2		2
286(1)	Fail to produce bill of lading	5		5
		8		8
CT				
291	Licence from the transport board for commercial truck	2		2
	TOTALS	572		572

DATE: September 1983 to March 1984

Washout on P.T.H. No. 30

TRAFFIC OPERATIONS

The following are statistics for the calendar year 1983, obtained from the computerized accident record system.

ACCIDENTS BY ENGINEERING DISTRICTS

District	Fatal	Injury	Property Damage	Total
1	9	151	406	566
2	8	147	406	561
3	4	93	301	398
4	3	34	189	226
5	3	181	634	818
6	4	137	465	606
7	5	76	277	358
8	5	68	257	330
9	1	36	140	177
10	5	80	211	296
11	6	58	254	318
12	4	127	379	510
TOTALS	57	1,188	3,919	5,164

URBAN & RURAL ACCIDENTS BY DISTRICT

District	Urban	Rural	Total
1	78	488	566
2	115	446	561
3	95	303	398
4	34	192	226
5	299	519	818
6	158	448	606
7	40	318	358
8	83	247	330
9	41	136	177
10	55	241	296
11	37	281	318
12	120	390	510
TOTAL	1,155	4,009	5,164

DAY-NIGHT AND MULTIPLE-SINGLE ACCIDENTS

	Multiple	Single	Total
Day	1,511	1,107	2,618
Night	600	1,946	2,546
Total	2,111	3,053	5,164

Speed Studies

Each year, numerous requests are received from the public or towns and villages to modify existing speed limits. Each requested location is assessed in the field as to adequacy and a recommendation subsequently forwarded to the Highway Traffic Board. These speed study recommendations, where necessary, are supported by one or more radar studies. One hundred and eighty seven (187) studies were conducted this fiscal year.

Pavement Markings

A. Maintenance

Cost of Pavement Marking Program	1 413 500.00	
Litres of paint applied	306 900	
Average cost per applied litre		2.37
Kilometres of centre line painted	13 152	
Kilometres of edge line painted	3 655	
Total kilometres of pavement markings applied	16 817	
Average cost of centre line per kilometre		53.42
Average cost of edge line per kilometre		78.26
Composite cost of applied pavement markings/km		83.85
Average litres of paint per kilometre of pavement markings		18.24

The above summary includes repainting of existing pavement markings as well as painting of new marking on some 1256 kilometres of seal coated pavements.

B. Construction and A/C Works

The pavement marking program included painting of new markings on some 210 kilometres (not including AST seals) of newly constructed roads as well as work done for towns and villages, the Federal Government and other Provincial Government Departments.

Hazard Removal Program

There was 1416 metres of aluminum guardrail installed at the following locations to protect errant vehicles from non-removable roadside hazards (sign structures, bridge ends).

1. Interchange 100/75
2. Interchange 44/59
3. Interchange 100/1E
4. Interchange 101/9

Construction Inspection

Numerous pre-contract meetings between District personnel and contractors were attended to advise on standard signing and stress safety for road users.

Eighty-one major construction/maintenance sites were reviewed with respect to adequacy of traffic control, maximizing safety for both the workers and travelling public.

Intensive studies were conducted on two major construction projects, wherein the effect of different traffic control devices and combinations of same were assessed. As a direct result of these studies, a decision was made to utilize regulatory speed limit signs in the form "Maximum xx When Passing Workers" commencing in the 1984/85 fiscal year.

Signing and Sign Structures

Upgrading traffic ccontrol messages complete with breakaway aluminum sign posts and a 10 m setback were completed at the following locations:

1. North junction Minnedosa By-Pass, P.T.H. No. 10 and P.T.H. No. 16

2. Vicinity of Russell, P.T.H. No. 83, No. 45 and No. 16

3. P.T.H. No. 101, Saskatchewan Avenue to Portage Avenue.

An experimental sign foundation anchor system was utilized on half of the guide signs at the new interchange of P.T.H. No. 1 and No. 12. This foundation anchor reduces the cost of foundations associated with conventional systems by eliminating excavating, forming, placing of reinforcement steel, de-watering excavations, cave-ins, curing and finishing concrete, and backfilling around the finished foundations. The foundation anchor can be re-used at another location should the need arise.

Seat belt signs were installed at 98 locations throughout the Province to advise motorists that seat belt use is compulsory.

A theft resistant nut, called Tufnut, was introduced into the signing system where certain types of signs were repeatedly subject to theft.

Inspection of overhead sign structures was completed, with eleven structures being fully inspected this year. As a result of these inspections, seven structures were repaired and upgraded after the necessary design and detailing work was performed by a consulting engineer.

Illumination

1. Illumination was installed at the following locations:

   a) P.R. No. 313 at Winnipeg River Bridge: installed 2-10.7 metre wood poles with 1-150W HPS luminaire on each pole.

   b) P.T.H. No. 1 and P.T.H. No. 26: installed 1-16.7 metre direct buried steel pole with 1-250W HPS luminaire and 1-10.7 metre aluminum pole with frangible coupling with 1-70W HPS luminaire.

   c) P.T.H. No. 5 and P.R. No. 235: installed 2-16.7 metre wood poles with 1-250W HPS luminaire on each.

   d) P.T.H. No. 11 at Elma Bridge: installed 1-9.1 metre steel pole on centre pedestal of bridge with 1-250W HPS luminaire.

   e) P.T.H. No. 16 and P.T.H. No. 83, P.T.H. No. 45 and P.R. No. 608: installed 18.3 metre wood poles with 1-250W HPS luminaire on each pole at each of these three intersections.

   f) P.T.H. No. 9 and Rivergien Cresent: installed 2-250W HPS luminaires on joint use poles in conjunction with the signalization of this intersection.

   g) P.T.H. No. 59 and P.R. No. 509: installed 1-150W HPS luminarire on existing wood pole.

   h) P.T.H. No. 7 and Rosser Weigh Station: installed 4-16.8 metre direct buried steel poles with 1-250W HPS luminaire on each and 3-13.7 metre wood poles with 1-150W HPS luminaire on each.

2. Modifications/Conversions:

   Interchange 59/44: the former illumination plant at this location was completely converted to high pressure sodium light sources and at the same time some lead in lighting was truncated. This conversion allowed the Department to relocate 17-30.5 metre poles to the new interchange at No. 1 and No. 12.

Traffic Signals

1. Traffic control signals were installed at P.T.H. No. 9 and Rivergien Crescent in the City of Winnipeg. These signals use fully actuated, solid state control equipment, combination luminaire/signal standards located at safer setback distances.

2. Fully actuated traffic control signals were installed at the exit ramp of P.T.H. No. 101 and P.R. No. 204 (Henderson Highway). The design was co-ordinated with Manitoba Hydro and Manitoba Telephone System in regards to relocation of street lighting standards, combination of signal standards and removal of wood poles.

   The combined effort contributed to a less cluttered, aesthetically pleasing and relatively hazard free signalized intersection.

3. Underground circuits, concrete bases and 7.5 m davit standards were installed on P.T.H. No. 10 at the intersection of P.T.H. No. 1 in the City of Brandon. They provide a more visible traffic signal display for north and south bound motorists and eliminate a few unnecessary traffic hazards.

Flashing Signals

1. Flashing red signals were added to enhance the existing stop signs at the intersection of P.T.H. No. 12 and P.R. No. 317 in the Municipality of Brokenhead.

2. Flashing amber signals were added to the Keep Right signs at the north and south ends of the recently constructed divided highway on P.T.H. No. 7

Pedestrain Corridors

1. Internally illuminated pedestrian corridor signs were installed at the intersection of P.T.H. No. 75 at Toronto Avenue in the Town of Morris. 7.5 m davit standards were used to provide safe setback distances at the intersection.

Miscellaneous

1. Radio controlled advance signals were installed at the following highway weigh scale locations:

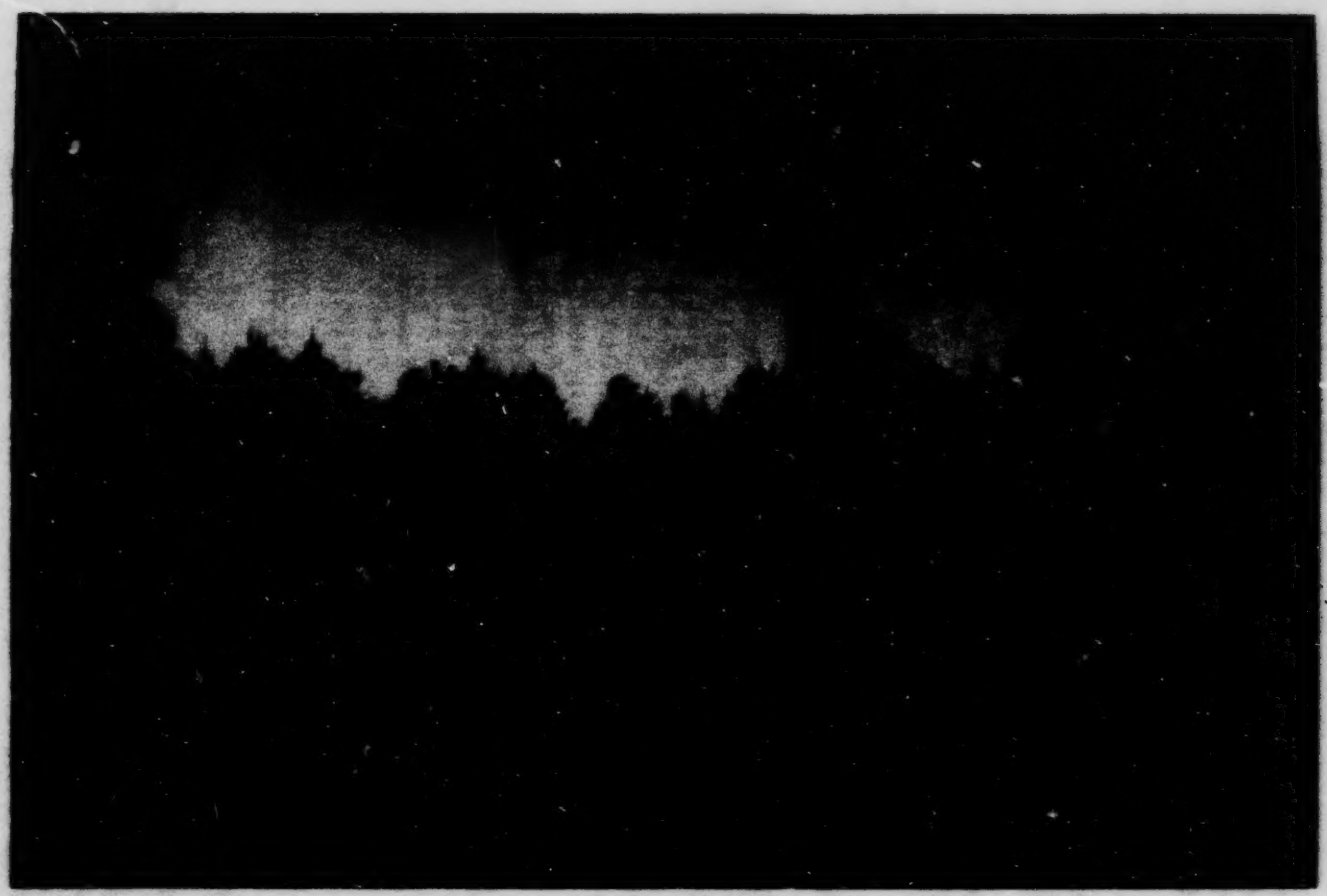
   P.T.H. No. 1 at Headingley
   P.T.H. No. 75 at Emerson
   P.T.H. No. 2 at Log Cabin
   P.T.H. No. 7 at Rosser
   P.T.H. No. 2 at Oak Bluff

   These signals can be switched on/off by a radio transmitter located in the weigh scale building at distances up to 5 km from the actual advance sign.

   The sign informs truck drivers and other weigh scale users whether the scale is open or closed.

2. Runway lighting plant was installed at the recently re-constructed, provincially owned airport at Norway House. This installation utilized flexible runway lighting fixtures, underground plastic conduits and ground fault interrupt circuit breakers to expedite maintenance repairs and improve safety standards.

   Airport equipment and local operators contributed greatly to trench 3500 m of runway and develop an innovative method of trenching at future runway lighting projects.



Mechanical Division's "Unimog", a 4 - wheel drive unit employed in gravel exploration. This unit may be converted into a Snow Blower.

MATERIALS AND RESEARCH

The activities of the Materials Testing Laboratories, Geotechnical Section, Surfacing Group and Soils and Research Section of the Materials and Research Branch are presented below.

Branch employees also participate in conferences and are active on several local and national committees dealing with several aspects of highway engineering, particularly materials, testing, design and evaluation.

The pavement strength testing program (Benkelman Beam Rebound) was organized and managed by this office, as in past years, and provided training, supervision, data collection and reporting for the Maintenance Engineer in connection with imposition of spring load restrictions.

The data was also used as input into the pavement design and evaluation function of the Branch. There were approximately 40,000 test results obtained from the eleven district testing crews.

Materials Testing Laboratories

Central Lab (Brandon lab. tests in brackets)

A.	Concrete strength tests field			
		- pavements	- 453	
		- bridges	- 659	
		- curb & gutter	- 205	
		- other	- 230	
		lab trial mix samples	- 80	
		Sub Total	- 1,627	
B.	Aggregates			
	- gravel survey samples		- 1,702	(131)
	- project samples		- 952	(452)
		Sub Total	- 2,654	(583)
C.	Soil Samples - soil & grade surveys		- 7,215	(964)
	- other		- 300	(1,071)
		Sub Total	- 7,515	(2,035)
D.	Asphalt mix samples - field mixes		- 657	(319)
	- lab mixes		- 66	(5)
	- lab equipment calibration		- 48	
	- pavement core analysis		- 930	(29)
	Sub Total		- 1,701	(353)
	Asphalt binder tests		- 380	

E. Miscellaneous testing

- glass beads for paint lines	-	138
- traffic marking paint	-	62
- water for concrete	-	9
- cement tests	-	11
- flyash	-	1
- de-icing chemical	-	5
- Calcium Chloride solution	-	11
- lignosulfonates	-	9
- AASHTO reference samples	-	8
Sub Total	-	254

Total samples tested by	- Winnipeg Lab.	14,131
	- Brandon Lab.	(2,007)

Approximately 47 kinds of tests were performed in the laboratories with many samples undergoing more than one test. The total tests performed were 32,713 in the Winnipeg lab and 6,697 in the Brandon satellite facility. In addition 146 tests on various asphalts were performed under contract by a private testing laboratory.

Less non-routine work was performed this year compared to previous but the following projects were undertaken:

a) Deformation modulus testing of a pile section for the Bridge Office.
b) Field calibration of the centre-line marking machines in Winnipeg, Brandon and Dauphin.
c) Field application of experimental paint test section on P.T.H. No. 9 employing thinner paint film thickness and finer glass bead gradation.
d) Computerization in the form of the Materials Lab Sample Analysis System in co-operation with the Computer Services Division with the Concretes part of the system being fully implemented in February 1984. Additionally, work continued in the writing of the User Manual for the concrete sub-system and the flow charting and system development for the Bituminous sub-system expected to be implemented in mid 1984.

Geotechnical Section

Exploration and inventory of granular materials remain to be the major activity of this section. This year a portion of the work force had spent two months time in Township 8 between Range 7 and 17E to conduct detailed mapping and exploring. The objective was to locate all the potential granular sources within the Highway withdrawn Crown land before it was released and reopened to the public. The effort led to the release of 85.8% of the Crown land withdrawn by the Highways Department in that area.

An agreement was drafted and signed with the Wildlife Branch of the Department of Natural Resources and Department of Energy & Mines to permit the Highways Department exploring and extracting granular materials from the Wildlife Management Areas. Joint projects on pit rehabilitation with the Wildlife and the Mines Branch were planned.

Throughout the year, this section worked closely with the Planning and Design Branch reviewing Crown Land Development Plans and supplied input to the Municipal Planning Boards. Complete listing of Development Plans reviewed and Planning Board input will appear in the Planning and Design Branch's 1983-84 Annual Report.

The following work was accomplished in 1983/84:

1.	Release of Withdrawn Crown Land	61,519 hectares
2.	Estimated New Gravel Source	9,273,000 m^3
3.	Gravel Pits Inspected	300
4.	Gravel sites investigated	214
5.	Samples processed	2,888 bags

Surfacing Group

During the 1983 construction season budgetary cutbacks necessitated a reduction in quality control monitoring on surfacing projects. One coring unit and one mobile laboratory (50% of our available equipment) were operated on a part-time basis only, resulting in less "on the project" monitoring.

Approximately 500,000 tons of Bituminous Mix was placed requiring 18 mix designs by the Winnipeg Laboratory. Quality control testing indicated that specification standards are generally being achieved.

In the fall of 1983 the last of the asphalt production refineries (Shell) was closed necessitating all asphalt required by the Province to be produced in either Saskatchewan or Alberta. Two asphalt producers (Imperial Oil and Husky Oil) have established shipping depots in Winnipeg, however, the additional freight charges required to rail product to the Winnipeg depots resulted in a cost increase of 15% - 20% for Asphaltic material ordered for the 1984 construction season.

In the concrete area, increased attention to aggregate production resulted in more uniform specification adherence. Preliminary work was done on a revised concrete aggregate specification and a new concrete curb and gutter specification. It is anticipated that these specifications will be approved and implemented in late 1984.

In the base course area, quality control monitoring was continued and indicated improved gradation control and product uniformity was being achieved.

Soils and Research

General Quality Control and Engineering Assistance was provided for 38 grading projects and one lime modified subgrade project. Nine nuclear density gauges were expedited to monitor densities on 22 grading projects.

The policy of inspecting culverts at manufacturer's plants was limited to evaluating corrugated steel pipe which were greater than 900 mm in diameter and to all arches. Thirty-four separate plant inspections were conducted for 14 of the 47 corrugated steel pipe purchase orders; plant inspections were not conducted for the 7 reinforced concrete pipe orders. Field training was provided for the installation of 7 reinforced concrete pipe and 2 corrugated steel pipe projects.

The major research activities included the following:

1. Evaluation of lignosulfonates as dust palliatives was continued in Districts 3 and 12. A three year summary report was produced and was issued as an information circular.

2. A comparative cost analysis and structural strength analyses were performed for various design shoulder widths (0.0, 0.5, 1.0, 1.5 and 2.0 metres) using a 7.4 metre wide gravel roadway to be upgraded to an A.S.T. roadway as a standard example.

3. Conducted a preliminary appraisal of proposals for RTAC's co-operative research project "High Speed Pavement Strength Testing Vehicle".

4. In conjunction with the Manitoba Forage Crop Committee began evaluating current grass seeding of right-of-way practices with respect to: maintenance, color, fertilizer and seeding procedures, weed control and erosion control.

5. Conducted a national survey of current pavement marking practices and produced summary tables.

6. Evaluated a seal coat test section on P.T.H. No. 6 south of Grosse Isle with respect to reducing reflective cracking.

7. Continued the evaluation of a geotextile (Penroad 150 by Nilos Canada Ltd.) test section on P.T.H. No. 10 North of Boissevain with respect to reduction of reflective cracking.

8. Commenced the collection of preliminary data and the literature search for pavement management study involving the derivation of traffic equivalency factors for both flexible and rigid pavements (single and tandem axles), and life cycle costing.

Geotechnical activities were conducted for the following projects:

1. A preliminary investigation and design for stable back slopes was conducted on the proposed relocation of P.R. No. 588 (E. of 36-37-29W.) for a proposed cut up to 13 metres deep through a large knoll.

2. A preliminary investigation for the proposed relocation of P.R. No. 279 (N. of 31, 32-37-28W.) was conducted to design stable back slopes and to check groundwater conditions for two proposed cut areas.

3. A failure area on P.R. No. 313 (10 km E. of Jct. P.R. No. 315) was investigated. Creek relocation and the construction of a soil counterbalance berm were recommended for stabilizing the embankment.

4. A side slope failure which occurred on P.R. No. 212 in the Village of Cook's Creek during base course construction was investigated. A berm design requiring land acquisition and creek relocation was recommended.

5. A preliminary investigation was conducted to evaluate foundation conditions for a valley crossing on P.R. No. 440 (South of P.T.H. No. 23) where 6.0 metres of fill is proposed. The preliminary analysis predicted excessive settlements and unstable foundation conditions.

6. A previous design to rectify a side slope failure on P.T.H. No. 11 (13 km S of St. George) was changed from a soil berm to a rock berm design when the roadway completely failed closing 1 lane. Construction of the project was completed and the lane re-opened.

7. Slope inclinator and piezometer monitoring continued on the slope stabilization research project on P.R. No. 238 along the Red River at St. Andrews Church in order to evaluate the effectiveness of the stabilization procedure employed.

8. A study to locate suitable parking locations around the Bird's Hill Provincial park to facilitate the papal visit in September of 1984.

9. Investigation and remedial design of a major heave on P.T.H. No. 12, south of the Seine River diversion.

10. Engineering assistance was provided for two tunnelling projects involving the installation of reinforced concrete pipe through existing highway embankments; P.T.H. No. 5 and P.T.H. No. 75.

Continued support was provided to the construction training activity by providing the following program:

1. Density workshops:
   Three 3-day field training sessions were provided for 60 grading and density inspectors.

2. Waste and Topsoil Seminars:
   Three 1/2-day seminars were presented to Project Supervisors relating to the planning, exploration, and design related to waste and topsoil materials on grading projects.

3. Inspector Seminars:
   Two 3-day sessions provided technical training in soil surveys, soil classification, density evaluation and compaction control.

The drilling summary for subgrade evaluation by the B-30 drill truck is attached.

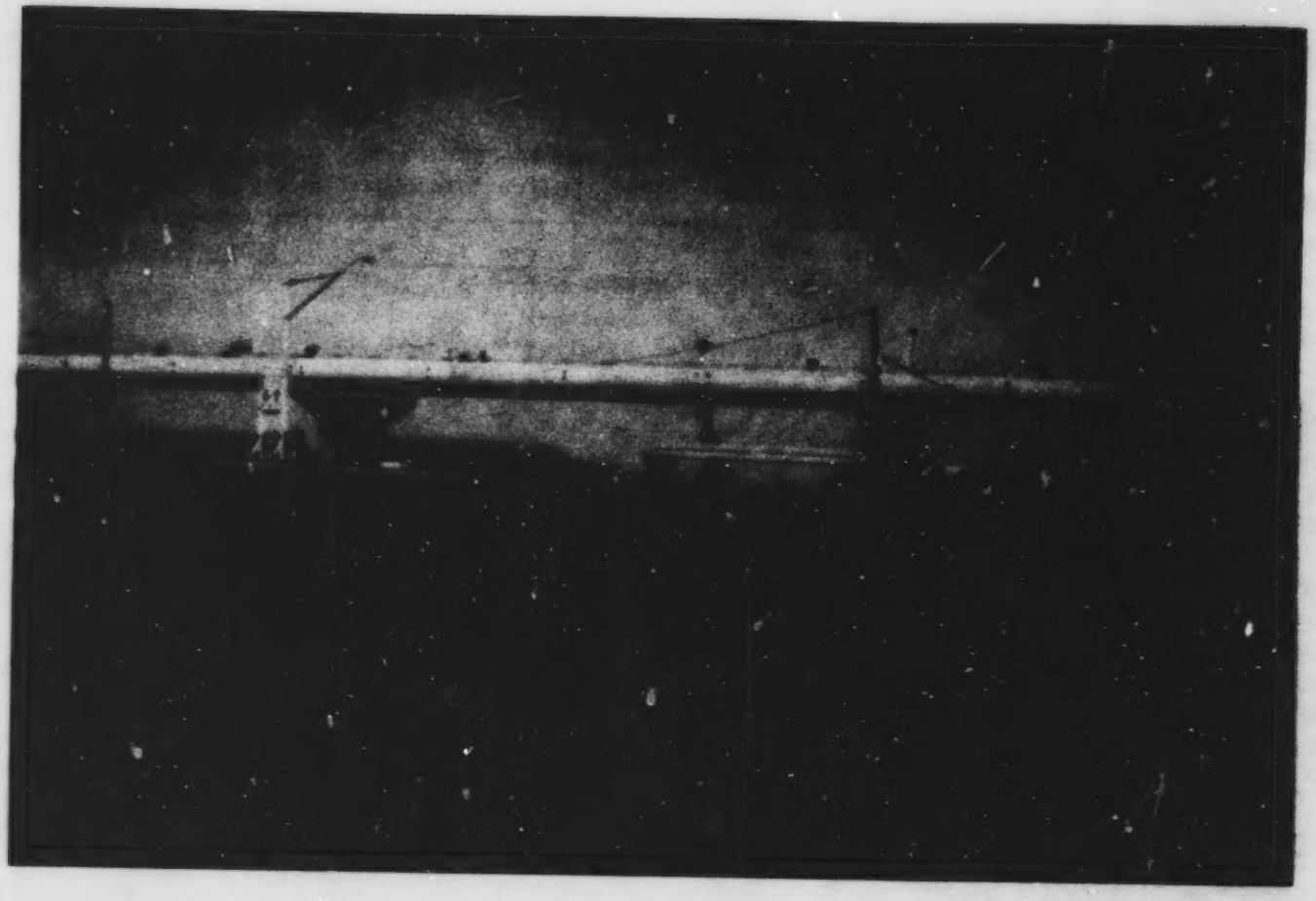
Table No. X6

1983-84 DRILLING SUMMARY FOR
SUBGRADE EVALUATION BY B-30 DRILL TRUCK

District	Total	Total No. and Types of Soil Surveys: Preliminary (survey and design)	Final (for pavement design)	Special (surface failure evaluations)	No. of km	No. of Hours	No. of Holes	No. of Samples	Total Depth Drilled (m)
1	9	8	1	--	104.9	216	697	1701	1062.2
2	4	3	--	1	3.2	24	31	93	55.4
3	2	2	--	--	3.5	20	49	98	73.5
4	3	1	1	1	41.7	57	202	428	300.4
5	10	7	3	1	118.5	371.5	784	1772	1313
6	5	4	1	--	9.7	60.5	188	385	286.4
7	5	3	1	1	50	84.5	204	497	348.7
8	5	3	2	--	63.9	254.5	510	940	810.6
9	1	--	--	1	35.9	16	20	40	30
10	1	1	--	--	1.5	30	50	120	90
11	5	5	--	--	96.3	229.5	793	2120	1408.7
12	1	1	--	--	2.9	11	27	81	41.1
Totals	51	38	9	5	532.0	1374.5	3565	8275	5820
1982-83 Totals	80	45	20	15	525.2	1254.0	2729	5786	4331

	NUMBER OF SAMPLES: Per metre drilled	per hole	per hour	per km distance
1983-84	1.42	2.32	6.02	15.6
1982-83	1.34	2.12	4.61	11.0

Pre-cast Decking P.T.H. No. 1



Pre-cast Decking P.T.H. No. 1

COMPUTER SERVICES

Computer Services exists to support the Department's activities by evaluating, developing, implementing, maintaining, monitoring, and supplying automated information exchange and processing systems that are efficient and effective. Emphasis is placed on those tasks having a high economic and social return on investment. The Department often takes advantage of systems that have already been developed by other transportation or related jurisdictions in order to save development costs and time.

The Section maintains over one thousand computer programs incorporated in two dozen applications.

Systems Accomplishments

Computer Services concentrated its efforts on introducing new computer hardware to replace aging computer equipment (installed 1975). Some 200 data entry programs were converted to run on the new equipment. The new hardware, in a single component, integrates the functions performed on the several pieces of original equipment and makes available recent technology which provides a better price/performance ratio for processing computer jobs.

The Accounting, Procurement, and Inventory Management System (A.P.I.M.S.) was fully implemented at the 10 Midland Street Store, the first (and largest) of several warehouses maintained by the Department. The system provides the means to manage the component activities of the supply and warehousing function for the Department - i.e. accounting, procurement, and inventory management - which makes the material and parts readily and economically available for the maintenance and construction of highways. Expansion of the system to the other stores will proceed, one at a time, as economic conditions permit.

A salary detail system was implemented which allows the Personnel Section to maintain computer files recording salary information by appropriation for each staff position. The system provides for the addition, change and deletion of individual details by using standard data entry techniques. Reports can be printed by appropriation listing all salary information plus totals. The system is particularly useful as a productivity aid during the preparation of budget estimates.

A system to expedite payments to suppliers of goods and services is under development. Payment vouchers, which are internal documents needed to process payments to suppliers are now computer-generated. The next phase of development will see the payment voucher detail, stored in the computer, transmitted electronically to the Department of Finance's payment systems. The electronic transfer of voucher detail will bypass the current practice of manually transcribing the same information through conventional means of keypunching and keyverifying.

The technology of interactive computer graphics has developed to a state where it is economically and technically feasible to introduce this technology in transportation engineering. The technology promises to provide the means to produce more cost-effective, optimized, and timely solutions to current engineering problems. A feasibility study has been undertaken in the Department to evaluate the potential of interactive computer graphics in highway engineering. Applications include roadway design, traffic sign design, structure, bridge and culvert design, map preparation, demographic analysis, general drafting and forms design. Work on this project will continue through 1984-85.

Consultations on office automation were provided to the Manitoba Health Services Commission, the Department of Co-operative Development, the Department of Labour, and the Department of Education.

Consultations on miscellaneous system needs were provided to the Department of the Attorney-General and the Manitoba Lotteries Commission.

System Production and Operations

Eleven thousand batch jobs were processed. There was no change in the total number of records keypunched and key-verified (approximately 1.5 million).

Seventy-one thousand on-line inquiry update transactions were submitted against data bases of the Motor Vehicle Driver System and the Accounting, Procurement and Inventory Management System. This represents a 136% increase from last year. The increase results from the full implementation of A.P.I.M.S. at the 10 Midland Street Store.

Approximately four thousand hours of connect time originated from our remote user terminals having a direct access to Manitoba Data Services.

ADMINISTRATION

Personnel Services

The Personnel Services Section is responsible for providing personnel, administrative and payroll services and systems to management and employees of the Department. These services are provided through the development of policies and procedures and the provision of support services in recruitment, salary administration, pay and benefits administration, classification, organizational analysis, contract administration, collective bargaining, employee relations, employee health, and training and development.

The Personnel Section is split between both personnel related activity and payroll and benefits activity.

During the year, a number of planned projects were completed. These included finalizing and implementing an organizational review and management classification review in the Driver and Vehicle Licencing Division. In addition, the implementation of a formal management by objective system with a performance monitoring system for management was completed. Formal performance appraisal systems were completed in all the Administrative Services Divisions, which included Personnel Services, Financial Services, Computer Services and Central Records.

During the year, the Equal Employment Opportunity policy of the Department was developed and implemented. The program is aimed specifically at promoting and encouraging three target groups namely, people of native origin, women, and the disabled. The purpose of the program is to improve equal opportunity in employment and career development for those in the target groups. The policy also includes local preference hiring requirements of contractors employed by the Department on highways projects.

Financial Services

The Financial Services Section is responsible for providing central accounting, financial information, and related administrative services to Departmental programs and management. The Section ensures that internal accounting systems are in place to monitor financial matters, including:

1) revenue and expenditure;

2) cash receipts and disbursements;

3) accounts receivable

This section is also responsible for the preparation of annual estimates and the Department's Quarterly Forecast of Expenditures and Revenues and monthly expenditure reports for managers.

During the year the Financial Services Section processed 54,840 payment vouchers. Approximately 11,000 invoices were produced with a total expenditure and recoveries of approximately $5.1 million.

A computerized Accounts Receivable System was implemented in order to:

1) reduce billing processing time;

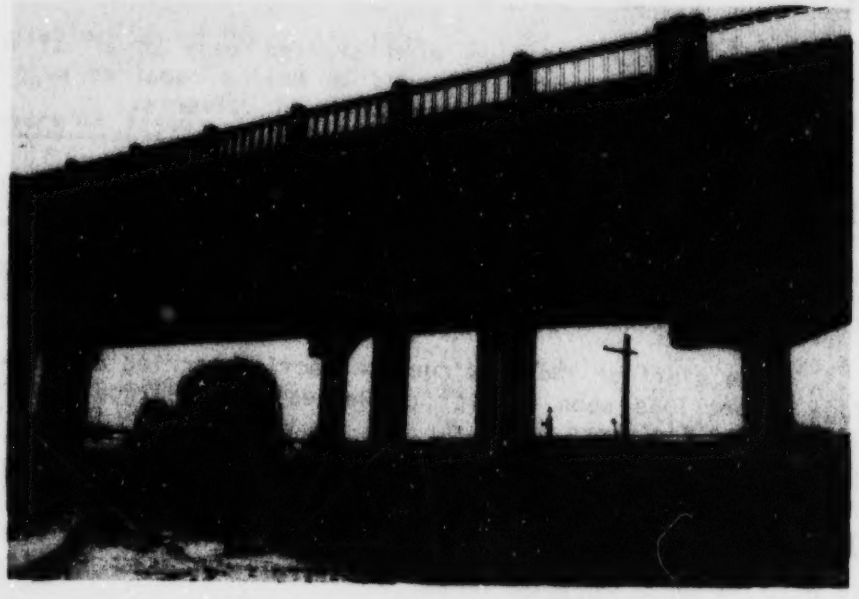
2) reduce recovery time of the cost of services performed for others;

3) accomplish this with reduced staff.

Symington Rail Yard with the Trans Canda Highway Overpass in the foreground

Damaged columned piers of Symington Yard Overpass on Trans Canada Highway caused by a collision with a derailed C.N.R. Engine

Before repairs to the Overpass



After repairs to the Overpass

BRIDGE

General

Expenditures for structures on Provincial Trunk Highways and Provincial Roads increased by 27.3% - almost $1,000,000.00 over the previous fiscal year. Maintenance expenditures, exclusive of ferry operations and contingencies, were only slighter higher than in the previous year, showing an increase of 2%.

Design

A major bridge over the Assiniboine River on the Brandon By-Pass of the Trans Canada Highway was designed and construction was started. This bridge consists of precast prestressed concrete girder spans with a cast-in-situ concrete deck. Other major bridges employing precast prestressed concrete girders were bridges over the Roseau River on P.R. No. 209 and over the Turtle River on P.R. No. 480.

The Department constructed a number of reinforced concrete box culverts including several in the new Northbound Lanes of P.T.H. No. 75 south of Winnipeg and two in the new Northbound Lanes of P.T.H. No. 59 in the vicinity of Libau.

Several structures employing the standard prestressed concrete channels were designed for Provincial Roads.

The Bridge Division also studied many other sites to provide advice to District Engineers as to the required hydraulic capacity with respect to the installation of culverts.

Construction

As well as continuing the supervision of work carried over from the previous fiscal year, 50 new contracts which included 48 separate structures, were let during the 1983-84 fiscal year.

The staff of the Construction Section carried out numerous bridge inspections upon receipt of Requests for Bridge Assistance from District Engineers.

Item of special interest is the emergency reconstruction of one of the columned piers of the Symington Yard Overpass on Trans Canada Highway No. 1 East. The reconstruction was required as a result of a collision between a derailed C.N.R. engine and one of the bridge piers.

Maintenance

The Bridge Division maintenance crews worked on 69 separate projects which included construction of and major repairs to 6 bridges, general repairs to 11 structures, deck patching of 13 structures, 13 accident repairs, painting of 11 structures, and other projects varying from installation of lateral restraint rods, to the erection of asphalt tank stands for districts and the construction of a Scale pit.

Item of special interest is the emergency replacement of some treated timber piles with steel piles in the substructure of the Bield Overpass on P.T.H. No. 5. This work was required due to the rotted condition of some of the timber piles.

Ferries

The Treesbank Ferry on Provincial Road No. 340 continued to be operated by the Rural Municipality of South Cypress under a grant system.

Statement of Bridge Materials Stockpiles At Beausejour and Dauphin

Inventory - April 1st, 1983	$ 989,578.73
Purchases	369,894.63
Charges for Inspection and Handling	13,719.86
Sub-Total	1,373,193.22
Less Issues	369,237.66
Inventory as of March 31, 1984	$ 1,003,955.56

Summary of Issues

Type of Material Issued	Quantity	Approximate Unit Price	Total Value
Treated Timber	282.789 m^3	432.08	$122,188.17
Treated Timber Piles	2067 meters	19.36	40,010.42
Steel "H" Piles	2683 meters	56.51	151,620.85
Bridge Iron	12 779.059 kg	2.00	25,602.35
Steel Pipe Guard Rail	144 pcs.	62.85	9,050.04
Steel Beam Guard Rail	82 pcs.	51.45	4,218.83
Guard Rail Terminals	68 pcs.	15.48	1,052.41
Paints, Primers, Thinners	3001.81 L	4.27	12,819.48
Timber Joint Preserver	272.78 L	5.19	1,414.95
Steel "H" Pile Points	22 pcs.	57.28	1,260.16
	Total		$369,237.66

At the year end, treated timber and treated timber piling accounted for 44% of the total value of materials issued. Steel H piling accounted for 41%, leaving a balance of 15% for miscellaneous items. There were no significant increases or decreases in the cost of treated timber, timber piles or steel piles.

The total value of materials issued decreased by $216,000.00 or 37% as compared to the previous fiscal year. Total value of year end inventory remained constant registering only an insignificant increase of 1.4%.

Subsurface Soil Explorations

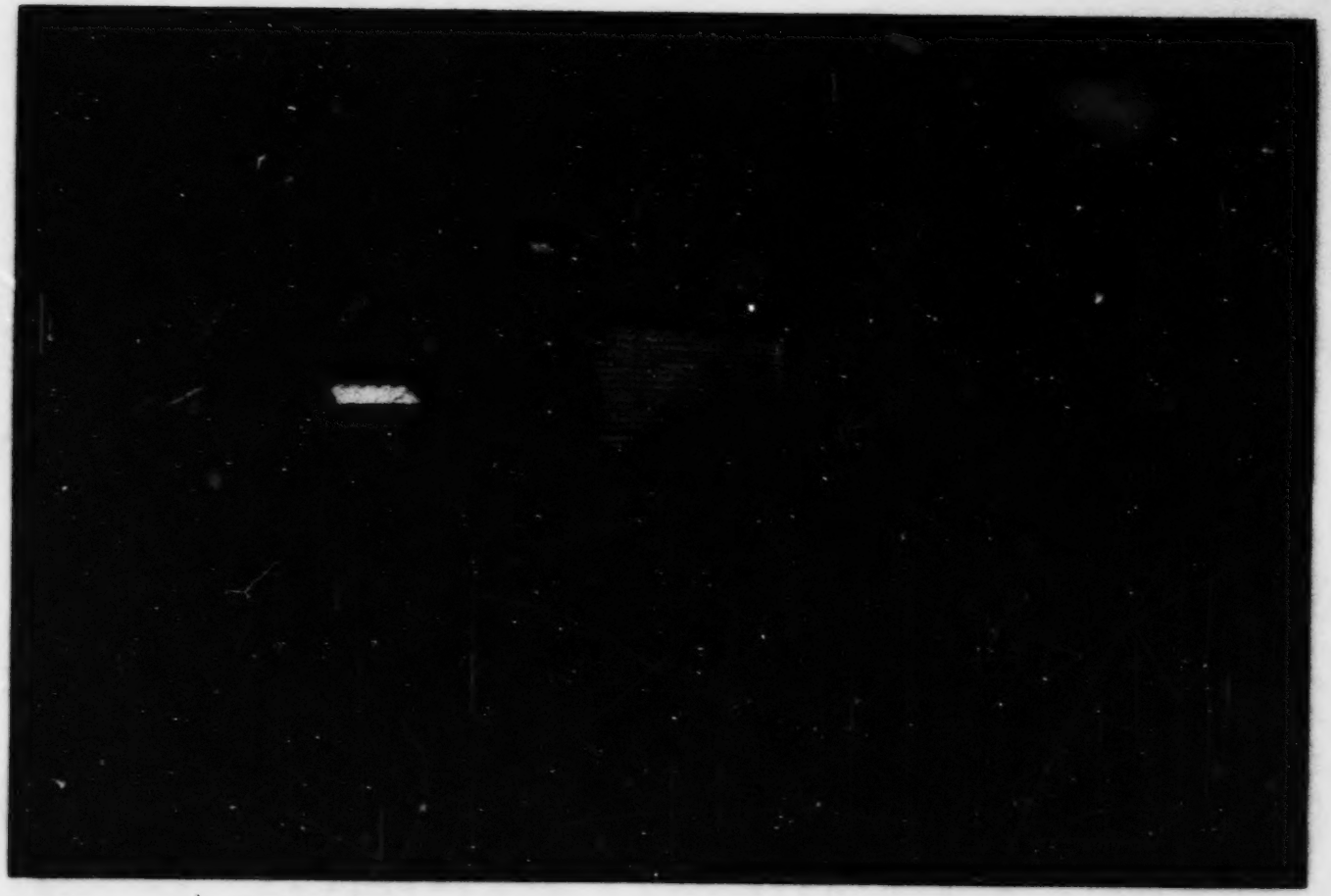
Appropriations	P.T.H. 15-7A	P.R. 15-7A	Main Market 15-7A	Total
Sites	16	44	3	63
Borings	32	123	7	162
Linear Metres	323	1605	67	1995

Others

	No. of Borings	Linear Metres
Oil Storage Tank (Rapid City)	2	13
Oil Storage Tank (Swan River)	2	19
District 4 P.R. No. 440 Road Cuts & Fill	3	38
District 9 P.R. No. 588 Road Cuts	2	37
District 9 P.R. No. 279 Road Cuts	2	19
District 1 P.R. No. 212 Road Failure at Cook's Creek	2	25
Ebb & Flow Lake Narrows	18	204
Red River North of Selkirk	34	422
Red River North of Lockport	6	74
Totals	71	851

Field Sampling and Testing

Standard Penetration Tests	1173
Vane Shear Tests	384
Shelby Tubes	417
Split Spoon Samples	1116
Dynamic Cone Penetration Tests	1



Steinbach Maintenance Yard

MECHANICAL

The Mechanical Equipment Services administers a fleet of approximately 2,470 units rented to the various branches of the Department on a cost recovery basis.

To maintain the fleet, major shops are operated at the following locations of Beausejour, Brandon, Dauphin, The Pas, Thompson and Winnipeg. Satellite shops are located at Boissevain and Swan River.

Major types of equipment and quantities are as follows:

Trucks, Lightduty	267
Trucks, 2 tonnes	220
Trucks, Miscellaneous	134
Motor Graders	164
Wheeled Tractors	282
Loaders	70
Rollers	207
Sand Spreaders	235

The following types of specialized equipment are also included in the fleet:

Asphalt Distributors	51
Tar Kettles	85
Asphalt Mixers	12
Sweepers	37
Centre Line Markers	7
Gravel Crushers	2
Cabooses	84
Diamond Drill	2
Swathers	25
Brush Cutters	4

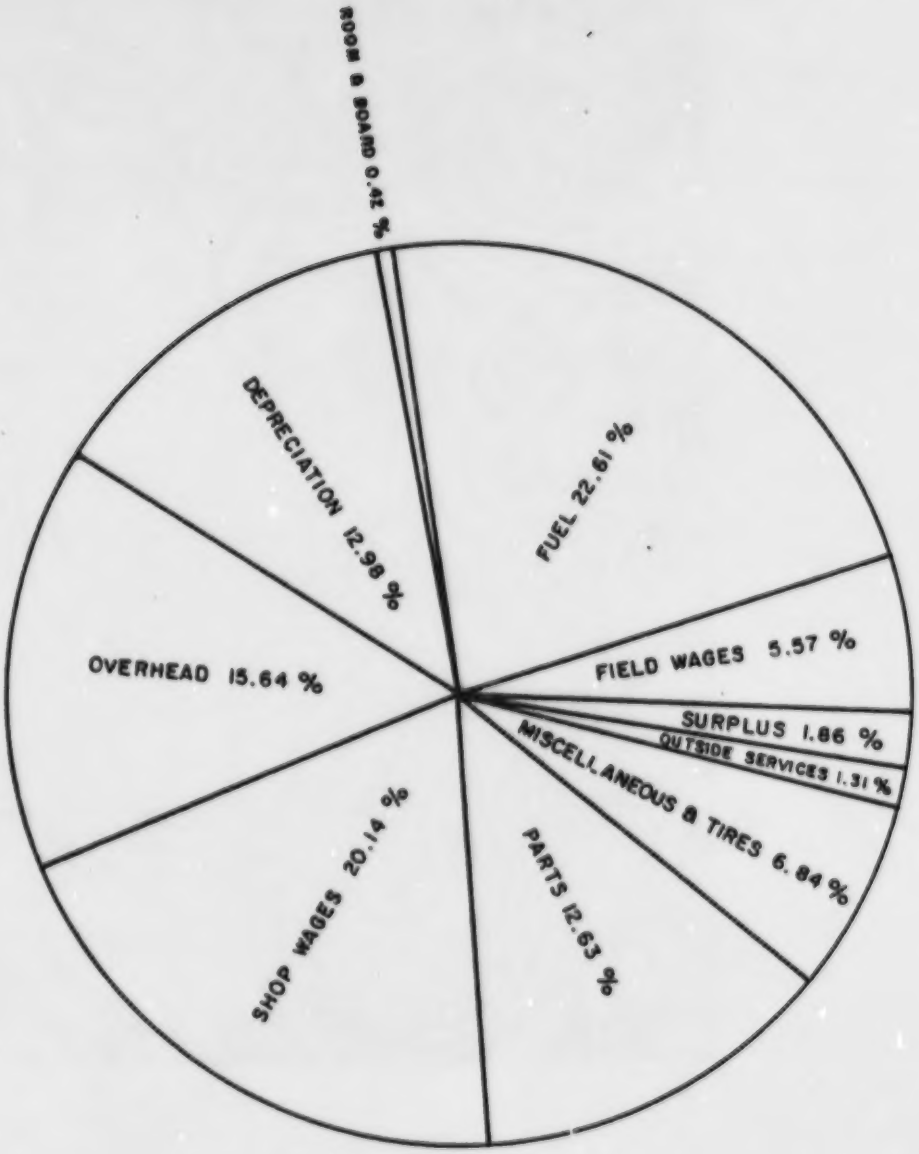
See attached graph indicating breakdown of revenue.

The Mechanical Equipment Services also provide the following services:

Sign Shop

Sign requirements for the Department are produced in the sign shop located in Dauphin. Silk screening and legend applications are used to mass produce signs to fill anticipated requirements or specific orders.

The total value of signs produced during the year amounted to $696,018.00 with year end inventory valued at $482,466.00.


ROOM & BOARD 0.42 %
DEPRECIATION 12.98 %
FUEL 22.61 %
OVERHEAD 15.64 %
FIELD WAGES 5.57 %
SURPLUS 1.86 %
OUTSIDE SERVICES 1.31 %
MISCELLANEOUS & TIRES 6.84 %
SHOP WAGES 20.14 %
PARTS 12.63 %

Warehouse Stores

Warehouse operations are maintained at major locations to supply fuel, repair parts and other supplies for the Engineering Districts and other Divisions of the Department.

Over 7,000 line items are carried in the Stores System with an inventory value of $2,337,363.50.

An online computerized inventory management system was implemented on two Winnipeg Stores, the balance of the Stores will be phased into the system over the next two years.

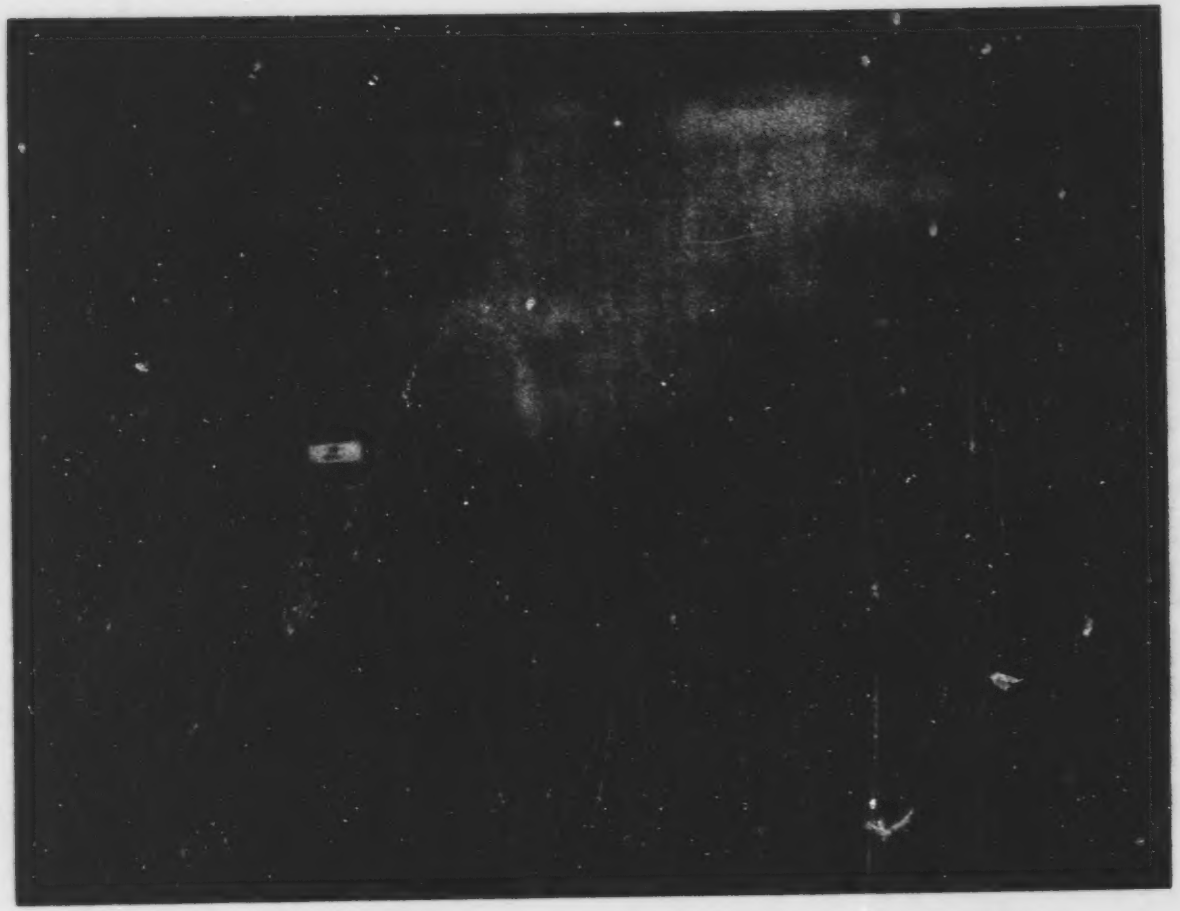
The system is designed to provide inventory management reports to give greater control over stock levels.

Operator Training Program

Two full-time Operator Trainers are employed to up-grade personnel in operating procedures and equipment maintenance. One of the major training programs during the year was to up-grade District personnel for Class 1 licenses with air brake endorsement.

Buildings

Mechanical Equipment Services personnel administered a building program for erection of snowplow storage buildings 10.4 m x 15.8 m at Petersfield, Winnipegosis, Crystal City, Fraserwood, and MacGregor, a 10.4 m x 18.9 m building at Gillam Road and a 25.9 m x 15.2 m building at Steinbach.



Shoulder widening on P.T.H. No. 5

PLANNING AND DESIGN

Planning and Design responds to the need to identify a Provincial Highway System, select improvement programs on the basis of priority need, design modern facilities, and protect the existing infrastructure from any adverse impacts from adjoining land uses.

Major Projects

Planning & Design staff were involved in the following studies and programs during the year:

1. Brandon Area Provincial Highway Study

   This study by a consultant, which identifies the needs of the provincial highway system in the Brandon area over the next 20 years, was completed during the year. The consultant carried out an evaluation of alternatives, and the Technical Committee directing the study made a selection which led to a number of recommended proposals being carried forward to the preliminary design stage. The report was finalized and published.

   The study identified a long-range need for a new access route from the Trans-Canada Highway to Brandon's eastern industrial area for the purpose of transporting hazardous goods. The existing route is through the City and passes through residential areas. Since the Department has placed a high priority on the implementation of the industrial access, a number of design alternatives for the route are to be studied, including some closer to Brandon than recommended by the consultant.

2. New Red River Crossing, Vicinity of Selkirk

   This in-house study was initiated to determine the location of a new bridge and connecting links over the Red River near Selkirk. During the study, a decision was made by the Department to construct a new crossing and approach roads north of Selkirk, and also to protect for a future crossing south of Selkirk. The Division is presently involved in preliminary design studies for a crossing north of Selkirk in the St. Peter's Corridor.

3. Papal Visit Transportation Plan

In September of 1983, the Department was requested to assist in the planning of transportation facilities required in connection with the visit of Pope John Paul II to Manitoba on September 16, 1984. Subsequently, staff from Planning & Design, Traffic, and District 12 joined a Papal Visit Transportation Committee. The Committee consisted of key staff from the City of Winnipeg, the RCMP, Parks Branch, Department of Education, Grey Goose Bus Lines Ltd., and the Roman Catholic Church.

Plans were drawn up to accommodate up to 350,000 people travelling to and from the Mass scheduled at Birds Hill Provincial Park. It was necessary to define access routes and parking areas for tour/charter buses, shuttle buses, private motor vehicles, the handicapped, and cyclists. During the Pope's visit, the Winnipeg shuttle bus service was to run on the west side of P.T.H. 59 between P.T.H. 101 and the Park as a two lane, two-way operation. The east side of P.T.H. 59 was to be reserved for cars and operate as two lanes northbound before the Mass, and two lanes southbound afterwards - between P.T.H. 101 and the Park.

A number of temporary (and in one case permanent) roadways were to be constructed for the event; also, levelling and fencing of parking areas and pedestrian walkways were considered to be necessary as well as construction of a temporary bridge over the Red River Floodway. Several kilometres of gravel roads under both provincial and municipal jurisdiction were identified for gravelling and dust treatment prior to the Pope's visit in order to safely accommodate the large volumes of bus and car traffic projected. In addition, temporary signing and some illumination of parking areas and access routes were also considered to be necessary.

4. Classification and Control Lines Study

This in-house study was initiated because the last complete review was made in 1960, and since then the Province's transportation needs have changed because of different public values, newer technologies, additional highway links, new developments, and metrication.

The study is to systematically establish attraction nodes (population centers, recreation areas, resource developments, etc.) and their links, and then group the provincial highways in terms of their functional characteristics. The study will also examine existing design standards relative to the functional classifications and will recommend more appropriate design standards in light of current conditions.

The study will also review the statutory control lines as applicable to each highway and make recommendations as to which highways should properly have access control under the jurisdiction of the Highway Traffic Board.

Highway Programming

The inventory files for trunk highways and provincial roads were updated to include 1983-84 construction records, highway geometric changes, pavement condition ratings, maintenance cost ranges, traffic counts, and accident statistics.

Metrication of the highway inventory card system was completed during the summer, and work commenced to determine the problems and ramifications of metricating the computerized needs study for trunk highways.

The highway system was analyzed for deficiencies, and sections of highway that required improvement were identified for priorization, cost estimating and program development. Two programs were developed last year for ministerial approval--the annual highway construction program and the pre-advertising program.

Once the annual highway construction program was prepared, programming staff produced a follow-up program showing future commitments (including costs) of all major highway projects (4-laning and new highway corridors) that were included in the construction program. A number of project-specific five-year programs were also developed on portions of the Trans-Canada and Yellowhead Highways to form part of the data base used by the Province to negotiate for federal funding.

The Planning Section issued 25 geometric design standards, 32 standard project cross-sections and 21 bridge design widths for projects that were included in the approved construction program.

Traffic Studies

The annual traffic counting on trunk highways and provincial roads continued and the annual average daily traffic map was prepared.

A truck weight survey was carried out seasonally at 13 locations. Traffic classification was undertaken at 26 locations on a seasonal basis. Seventy-four special one-day counts were taken for signal, pedestrian corridor, or intersection design studies.

Golden River traffic counters were installed at six permanent station locations. The traffic volumes from these counters were collected via telephone and then entered directly into the computer for processing. Savings will be realized in the overall costs of collecting and processing traffic volumes; as well, increased accuracy of the traffic counts will result.

The metric inventory of trunk highways and provincial roads was continued.

Land Use and Access Control

During the year, the Department reviewed the forty land use documents and development plan proposals.

Department staff participated in:

(i) the Provincial Land Use Policy Review Committee
(ii) the Local Government District of Armstrong Crown Land Task Force
(iii) the Riding Mountain Task Force
(iv) Local/Regional Land Use Committees
(v) the East Side Lake Winnipeg Technical Advisory Committee
(vi) the Indian Land Claims Working Group
(vii) review of the proposed Ukrainian Folk Arts Centre south of Dauphin

During the regular review of subdivision applications, 709 proposals were studied and comments submitted to the Municipal Planning Branch or to the City of Winnipeg Department of Environmental Planning.

Approximately 355 Crown Land proposals were reviewed and comments submitted to the Department of Natural Resources. These proposals consisted of:

(i) sales, leases and general permits of Crown Land
(ii) exchanges of Crown Land to various Local Government Districts
(iii) reservations of Crown Land for various municipal, provincial and federal authorities

Roadway Design

Roadway design activities were undertaken both in the central Design Section and in the district offices. Design Section operations continued to be centered on the more complex roadway design projects, such as functional and final plans for multi-lane highways, traffic interchanges, channelized intersections, and urban arterial connections.

The district offices continued to be responsible for the detailed and more general routine designs, such as the preparation of location plans showing right-of-way requirements for upgrading existing roads and new locations, the preparation of profiles, and quantity calculations. For these projects, Design staff were often required to provide basic design criteria; and during the design stage, to provide guidance and advice for problem or sensitive areas. Upon completion of the district designs, the Design Section reviewed the plans and profiles prior to submission to Head Office for approval.

Some representative road design projects carried out during the year were:

1. P.T.H. 44 (P.T.H. 59 -- East of Beausejour)

   This project required the preparation of a functional design for a 4-lane divided rural highway to illustrate the recommended road layout and required right-of-way. A number of alternative locations were studied and plans prepared so that they could be compared on the basis of cost, traffic service, and social and environmental implications.

2. P.T.H. 5 (At Dauphin: Dauphin Bypass -- Whitmore Avenue)

   A functional plan of a 4-lane divided urban arterial street had to be produced for this project to show the recommended road layout; it also included the study and detailing of intersecting streets.

3. Junction of Oak Lake Bypass (Trans-Canada Highway) and Proposed Access into Oak Lake

   This project consisted of designing a layout and detailing of a major at-grade channelized intersection.

4. P.T.H. 10 (At Brandon: Assiniboine River -- CPR Overpass)

   This project involved reviewing and recommending changes to a functional plan for a major 4-lane divided street design prepared by the district office.

5. P.T.H. 16 (Neepawa -- P.R. 466)

   The Department is proposing to undertake major horizontal and vertical alignment improvements on this highway section, and Design staff worked with the district in suggesting alternative concepts that had to be investigated, and then reviewed the final location plan and profiles.

6. P.T.H. 59 (North of Libau)

   Plans for extending the twinning program on P.T.H. 59 further north through the Brokenhead Indian Reserve were finalized following discussions with the Indian Band concerning the roadway design and proposed right-of-way limits.

7. Main Street Manitoba Projects

   The Main Street Manitoba program, which is administered by the Department of Municipal Affairs, endeavours to enhance the main streets in urban communities by means of landscaping and streetscaping (i.e., planting of trees, placement of benches, ornamental lighting, etc.).

This Department's responsibility is to ensure that the Main Street Manitoba proposals are compatible with present and future highway needs. The Department's involvement varies from reviewing conceptual and detailed construction plans, to coordinating main street improvements with proposed highway projects. Fifteen projects were reviewed by Design staff during the year. Major Main Street Manitoba projects were planned for the City of Portage la Prairie and the Towns of Carman, Morden and Morris.

Other responsibilities of the Design Section included various studies with respect to access control, provision of highway access for major land-use development plans, and sight distances at new highway bridges.

There is a continuing increase in the use of photographic base plans for location plans by both the districts and the Design Section. These enlarged photo base plans must be of high quality and accuracy, and the Design Section was responsible for producing these semi-rectified plans.

Drafting Services

The Drafting Section updated district, municipal, town and village maps to incorporate the latest information regarding new locations, numbering, and surface type. Ninety-eight large scale municipal maps have now been redrawn using the scribe method, with metric versions produced for general use. As a result of the new provincial constituency boundaries, approximately 30 small scale Unorganized Territory maps were redrawn to complete the required boundary and name changes. Thirteen large wall maps were also updated to include all changes, including the maps in the Minister's and Deputy Minister's offices.

Scribe sheets for the Official Highway Map were again revised to include a new cover design. Five hundred and fifty thousand copies of the map were produced for distribution by Travel Manitoba showing all changes in location, numbering and surface type on trunk highways and provincial roads.

The Drafting Office prepared a new traffic count map, traffic count location map, and 866 access sketch plans. Drawings for numerous railway and gas pipeline crossings were drafted for locations that affected provincial highways. Charts and maps were prepared for the review of proposed subdivisions throughout the Province. Various maps and plans were prepared for rail line abandonment and Crown Land sales in Manitoba. Revisions were made to location plans as required throughout the year.

A contract for 1035 kilometres of aerial photography and enlargements was drawn up, awarded, checked and filed for highway inventory, location and design purposes. Special photo enlargements were made for various location areas throughout the Province, as well as mosaics for special projects such as the Winnipeg-Selkirk Corridor, the Selkirk study area for a proposed new river crossing, and the Bird's Hill Park area in preparation for the 1984 Papal Visit.

General

Staff reviewed 258 Manitoba Telephone System buried cable proposals adjacent to provincial, municipal and Local Government District roads, and 13 major Manitoba Hydro power line proposals affecting provincial highways. The utility companies were advised where to locate their lines so as to avoid disruption from possible future highway construction operations.

The Department continued to negotiate a Letter of Understanding with the Manitoba Telephone System. The "letter" is intended to streamline activities involving the Department and the M.T.S. as well as provide an acceptable interpretation of Policy PA-25-05 of the General Manual of Administration.

The Department was represented by Planning staff on a number of technical advisory committees for the following projects:

(i) proposed Dorsey - U.S.A. 500 kv transmission line (MANDAN Project)
(ii) M.T.S. Cadastral Mapping Proposal
(iii) steering committee for Agreement for Recreation and Conservation on the Red River Corridor (ARC) projects
(iv) coordinating committee for urban transportation programs

A staff member, in conjunction with representatives from the federal Railway Transport Committee and the railway companies, investigated railway crossings for which signal protection or other revisions had been requested. Approval was received to install signals at one unprotected highway-railway crossing on the provincial highway system. Various abandoned rail lines were also inspected to determine what portions of former railway right-of-way should be retained for future highway purposes.

Contact was maintained with technical organizations in the highway field, including the Roads and Transportation Association of Canada (RTAC), the Western Association of Canadian Highway Officials, the U.S. Transportation Research Board, and the Institute of Transportation Engineers. Senior engineers worked on national technical committees including the Geometric Design Committee and the Highway Statistics Project Committee of RTAC.

Large Culvert on Provincial Road No. 468

LAND SURVEYS

During the fiscal year 1983-84 this Division's field and office activities were similar to the average of the previous three years. Very little snowfall during the winter months allowed survey personnel to be active in the field continuously throughout the year.

Three of the major Provincial Trunk Highway projects surveyed for expropriation purposes during the year were a 13 km stretch of P.T.H. No. 7 from Teulon to Komarno, a 7 km stretch of P.T.H. No. 5 and 10 on the Dauphin Bypass and a 4 km portion of the P.T.H. No. 50 between Libau and the Brokenhead Indian Reserve. 132 km of the road from Split Lake to Gillam was also surveyed during the year.

In some categories there was a slight decrease in activity compared with the average of the three previous years according to the statistical summary following. There was, however, an increase in kilometres of section line retracement, Provincial Trunk Highway surveys, miscellaneous surveys, plans drafted and expropriation requests compared with the average of the last three years.

Carryover of unregistered plans at Land Acquisition Branch and survey requests decreased while the number of Orders of the Minister closing public roads increased compared with the average of the previous three years.

The addition of a Hewlett Packard 41 CV in the Division this year has proved to be a very useful tool particularly for calculations on survey plans in uncontrolled and unsurveyed areas of the Province. Other calculators used by field personnel are being replaced when they become too expensive to repair.

A safety committee within the Division was organized during the year and first aid courses were attended by field staff. A Safety Footwear Policy was put into effect by the Department and is applicable to the Division's field staff.

The Chief Land Surveyor served on the Canadian Council on Surveys and Mapping.

Statistical Summary and Comparision of Operations

	1983/84	1982/83	1981/82	1980/81
Kilometres of Section Line Retracement	1490	1402	1542	1382
Standard Posts placed at Section Corners	972	984	982	985
Centre line kilometres of all Roads Surveyed	518	636	582	801
Provincial Trunk Highway Surveys	21	13	13	18
Provincial Road Surveys	41	40	57	53
Other Road Surveys	6	9	15	20
Miscellaneous Surveys	17	16	14	9
Retracement Surveys	29	20	43	31
Plans Drafted	136	132	144	123
Plans Registered in Land Titles Office	124	121	128	123
Orders of the Minister Closing Public Roads	42	27	31	39
Survey Requests	113	131	130	144
Expropriation Requests	17	16	18	13
Carryover of Unregistered Plans at Land Acquisition Branch	45	65	65	47
Carryover of Survey Requests from previous year	19	33	30	38

AIRPORTS AND MARINE

The Province of Manitoba has been concerned over a long period of time for the socio-economic and emergency services requirements to isolated areas of "Northern Manitoba".

Its airport development program is ongoing and also serves to support such needs as forest protection, medical retrievals, resource development and the tourist industry.

The department operated, maintained and administered a combination of 28 airports and aerodromes which accommodated up to and included Class II air services at many of the following locations:

Sixteen Licensed Airports

Berens River	Little Grand Rapids
Bloodvein	Norway House
Brochet	Oxford House
Cross Lake	Red Sucker Lake
God's Lake Narrows	St. Theresa Point
Ilford Island Lake	Shamattawa
Island Lake	South Indian Lake
Lac du Bonnet	York Landing

Five Licensable Airports

Grace Lake	Pukatawagan
Lac Brochet	Thicket Portage
Pikwitonei	

Seven Emergency Aerodromes

Anama Bay (Dauphin River)	Easterville
Bissett (Wallace Lake)	Matheson Island
Cormorant	Moose Lake
	Poplar River

Miscellaneous work undertaken included the following:

- Equipment shelters were constructed at Shamattawa and York Landing.

- VHF radio equipment was obtained for ten sites in order to meet new Department of Transport regulations.

- Firetrucks (light-duty) and 135 kg dry chemical extinguishers were placed at Shamattawa, Ilford, Pikwitonei and Thicket Portage.

- Reconstruction of the Norway House airport to the Department of Transport's Code 2 standards was completed.

- Conditions at the airports influenced issuing 120 notams, 441 advisories and 154 extensions.

- Five additional airports were licensed by the Department of Transport which permitted air carrier services to be upgraded to a regular Class II (Brochet, Ilford, Shamattawa, South Indian Lake and York Landing).

Weather observing and reporting at Norway House under contract with Atmospheric Environment Services continued for national network distribution.

At 18 communities, the department made available to local government on an accounts collectable basis, the services of airport equipment for the maintenance of local roads and other municipal services.

The department operated and maintained the following airport facilities and support equipment:

Facilities	Number
terminal buildings	20
equipment shops	19
warehouses	1
radio equipment	101
non-directional beacons	12
rotating beacons	2
runways with lights	12
runways with light activators	11
motor graders	24
loaders	19
snow blowers	2
tractors and mowers	6
fire and other trucks	42
foam chemical apparatus	4
dry chemical apparatus	17

Airport Activity Summary

Total Aircraft Movements	55,043
Total Passenger Movements	126,581
Total Freight	8 619 tonnes

Resource Roads

At Jenpeg and Norway House, airport staff delivered summer and winter maintenance of 108 km of road, two high-level bridges and one ice bridge.

At Islandview/Matheson Island 6.5 km of road were maintained through arrangements with the Matheson Island Community Council using departmental equipment.

Marine Services Branch

The Department owns the following seven ferries which are operated to provide access to remote communities:

The C.F. Ingemar Carlson, was leased to the Matheson Island Community Council with an operational grant of $28,790.08. Service was provided from the end of P.R. No. 234 to Matheson Island.

The C.F. Thomas McIvor, was leased to the Cross Lake Indian Band with an operational grant of $30,000.00. It provides river crossing access from the Community on the west side of the lake to the commercial section on the east side.

The C.F. James Apetagon, is operated by the Department and provides access across the east branch of the Nelson River for traffic on the Jenpeg-Norway House road.

The C.F. Alfred Settee Sr., was operated by the Department providing access across the Nelson River from Pipestone Lake Crossing on the Cross Lake Road.

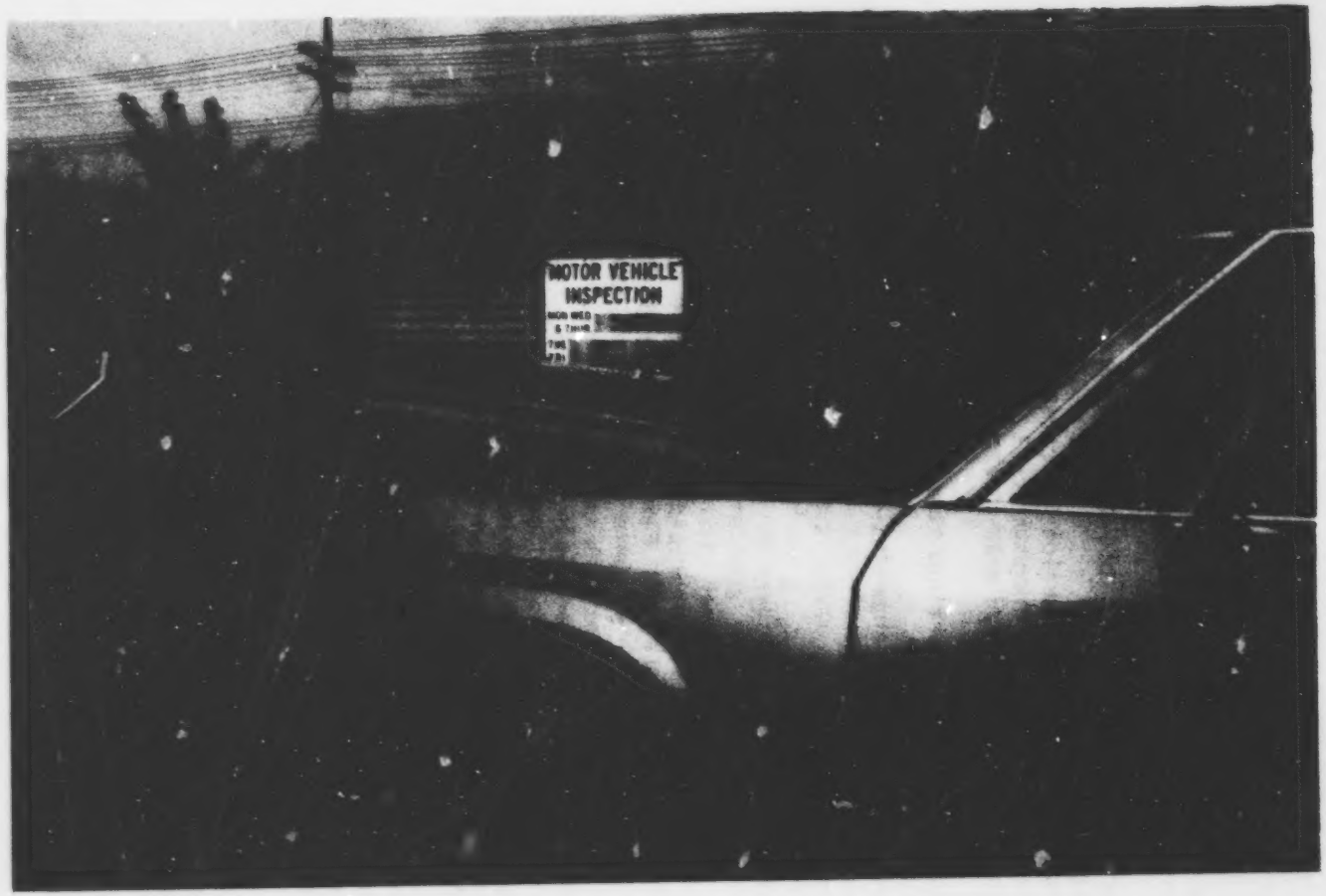
The M.V. Charlie Sinclair, was operated by the Department and provided access from Pipestone Lake Crossing on the Cross Lake Road, providing service across the Nelson River. In August 1982 this ferry was replaced by the new C.F. Alfred Settee Sr. The M.V. Charlie Sinclair is now in storage at Cross Lake.

The M.V. Joe Keeper, is operated by the Department and provides access from the Thompson to Split Lake Road to the community of York Landing.

The M.V. Edgar Wood, was leased to Channel Area Community Services Inc. with an operational grant of $60,000.00. It provides access from P.R. No. 234 to Princess Harbour and Bloodvein.

Summary of Ferry traffic:

Ferry	Passengers	Vehicles
C.F. Ingemar Carlson	31	7,933
C.F. Thomas A. McIvor	not reported	not reported
C.F. James Apetagon	13,953	8,442
C.F. Alfred Settee Sr.	22,105	13,253
M.V. Charlie Sinclair	nil	nil
M.V. Joe Keeper	1,357	217
M.V. Edgar Wood	671	598



Motor Vehicle Branch Inspection Unit

AIR SERVICES

Air Services operate and maintain a fleet of fifteen fixed wing aircraft, providing the following services to the various Departments and Agencies of the Government:

- general transportation of Government personnel and freight;
- emergency medical evacuation flights for the Northern Patient Transportation Program;
- forest fire detection, and fire suppression by water bombing;
- transportation of court parties and Mineral Resources' field parties;
- support and assistance to the Emergency Measures Organization;
- aerial photography;
- enforcement patrols during hunting and fishing seasons;
- wildlife census patrols.

The Air Services' fleet is utilized throughout the Province year round, and is authorized by Transport Canada to operate under day and night Visual Flight Rules and Instrument Flight Rules. The three main bases are Winnipeg, Thompson and Lac du Bonnet, with seasonal operations handled from the Grace Lake Base at The Pas, and God's Lake Narrows.

Flight agents located at the main bases, co-ordinate air transportation requirements for Government personnel, ensuring full utilization of Government owned aircraft.

All Air Services' pilots receive annual ground and flight training, with multi-engine crew members undergoing annual proficiency tests and instrument rating renewals conducted by Transport Canada inspectors.

All qualified pilots on the Cessna Citation aircraft attend Flight Safety International for recurrent and simulator training, and pilots of the CL-215 water bombing aircraft, undergo annual programmed ground and flight training in-house.

Single engine aircraft pilots receive their annual ground and flight training from senior staff, with recurrent training conducted at the commencement of float operations and again at commencement of wheel/ski operations.

Routine aircraft service and maintenance is conducted at the three main bases, with major inspections, overhaul and repair of the multi-engine aircraft handled from the Winnipeg base. Major overhaul and repair work on the single engine aircraft is carried out at the Lac du Bonnet facility, with an ongoing project commencing to cosmetically enhance the aircraft fleet.

The multi-engine aircraft operated by Air Services consist of:

3 Canadair CL-215 water bombers
1 Cessna Citation
1 Piper Navajo Chieftain
1 Piper Aztec
1 Cessna Skymaster 337

1 Mitsubishi MU-2-J (lease purchase) aircraft was sold in November 1983, as it was declared surplus after the Cessna Citation came into service.

The single engine aircraft operated by Air Services are:

2 Dehavilland DHC-3 Otter
5 Dehavilland DHC-2 MK III Turbo Beaver
1 Dehavilland DHC-2 Beaver

Flights during the year totalled 1 362 072 km, a decrease of 20 879 km from the previous year. Total flight hours for the fleet were 5,453.1.

Flights were well distributed between the Departments, with Fire Management, and other resource related programs accounting for 31% of the Air Services' flights, with a total of 418 909 km, an increase of 95 601 km from the previous year. The Northern Patient Transportation Program also increased their utilization from the previous year, to 344 677 km, or 25% of the total Air Services' flight distance. The Department of Highways and Transportation was the third largest user with 12% of flight distance and a total of 161 212 km.

A CL-215 aircraft was based in Winnipeg throughout the season, and from mid June to September, water bombing aircraft were also based in Thompson and The Pas. CL-215 #1044 suffered keel damage during a water pick up near Thompson, placing it out of service for over two months, with repairs being carried out in Montreal.

Early in September, the two remaining CL-215 aircraft operated steadily out of Winnipeg on fires burning on the Manitoba/Ontario border. Aircraft were called out of Province on two occasions, to Dryden and Kenora, Ontario, assisting in their fire fighting operations.

Negotiations continued on the Federal-Provincial Co-operative Supply Agreement, to provide one CL-215 aircraft on lease from the Federal Government, for delivery in May 1986, and the purchase of another CL-215 for delivery in 1988, as part of the National Air Tanker Fleet.

In order to house the CL-215 aircraft and perform maintenance during the off season, leasing arrangements were being finalized with the Western Canada Aviation Museum for hangar facilities at the Winnipeg International Airport.

At March 31, 1984, the Province of Manitoba Air Services had flown a total of 43 505 429 km since its inception in 1932.

Table No. AR2

SUMMARY OF AIR SERVICES FLIGHT DISTANCE (km)

Department or Agency	1982-1983	1983-1984
Agriculture	6 405	7 009
Attorney-General	116 038	97 178
Business, Development & Tourism	9 978	9 068
Communities Economic Development Fund	9 680	3 211
Community Services & Corrections	87 844	26 674
Consumer & Corporate Affairs	716	--
Co-operative Development	--	1 802
Crown Investments	7 612	2 092
Culture, Heritage & Recreation	21 508	21 718
Education	44 296	38 028
Employment Services & Economic Security	--	9 736
Energy & Mines	6 026	13 486
Environment & Workplace, Safety & Health	660	22 297
Executive Council	16 383	12 504
Finance	2 124	3 174
Government Services	5 512	8 199
Health	24 502	16 302
Highways & Transportation	187 829	161 212
Housing	5 962	13 888
Industry, Trade and Technology	--	998
Labour	8 151	14 307
Legislation	--	1 368
Man-For	3 629	2 333
Manitoba Development Corporation	--	2 454
Manitoba Hydro	27 479	5 512
Manitoba Telephone System	32 379	9 479
Municipal Affairs	6 115	4 337
Natural Resources	323 308	418 909
Northern Affairs	101 080	85 639
Northern Patient Transportation Program	307 095	344 677
Urban Affairs	1 529	724
Miscellaneous	18 258	2 116
TOTAL PROVINCIAL DEPARTMENT & AGENCIES	1 382 098	1 360 431
TOTAL FEDERAL DEPARTMENTS	853	1 641
TOTAL DISTANCE FLOWN	1 382 951	1 362 072

Table No. AR3

DISTANCE FLOWN BY BASES (km)

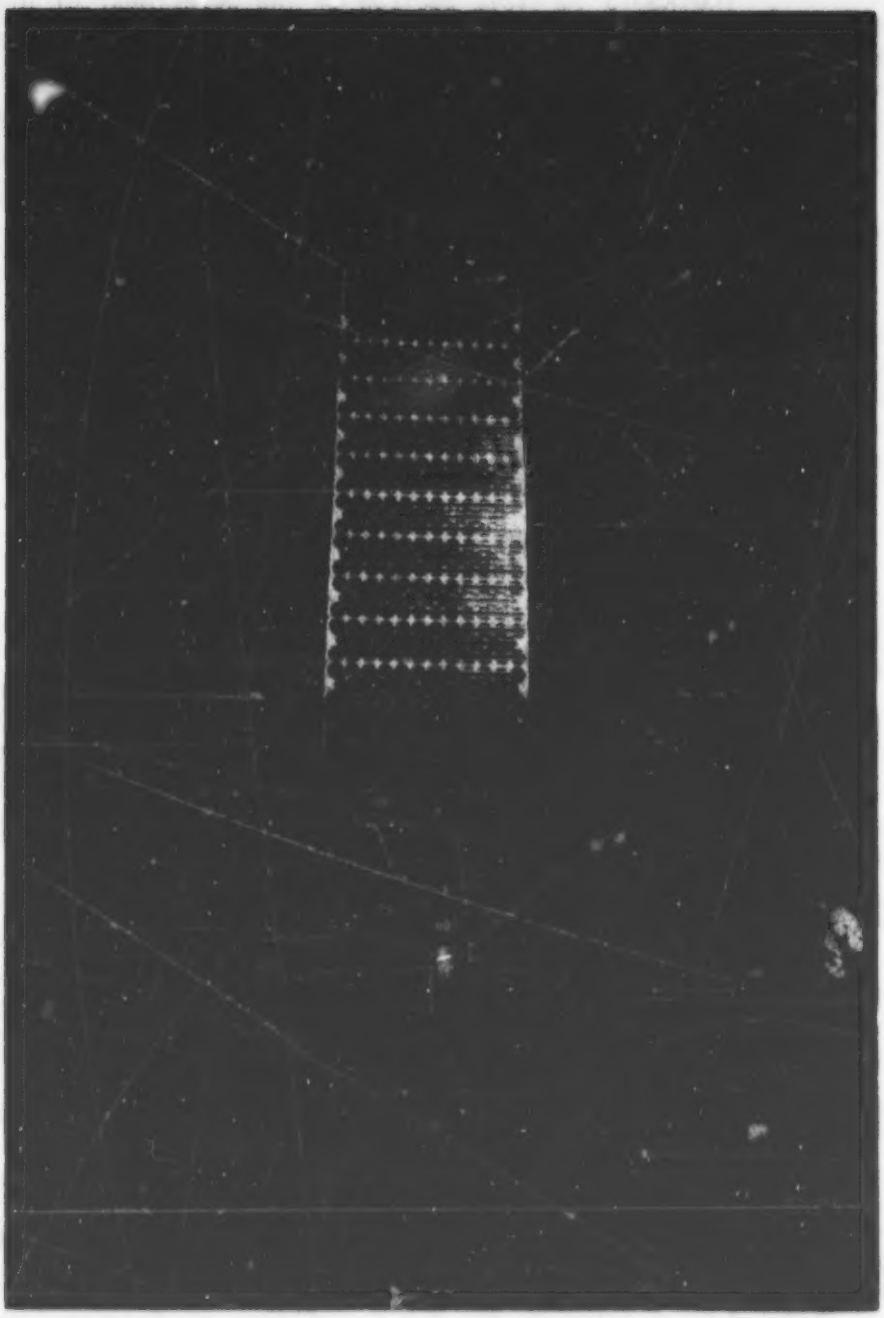
Agency or Department	Bases					
	Gods Narrows	Lac Du Bonnet	The Pas	Thompson	Winnipeg	Totals
Agriculture					7 009	7 009
Attorney-General		7 177		78 502	11 499	97 178
Business, Development & Tourism		2 028		3 613	3 427	9 068
(Economic Development & Tourism)						
Communities Economic Development Fund				2 728	483	3 211
Community Services & Corrections		1 143		20 889	4 642	26 674
Consumer & Corporate Affairs						
Co-operative Development					1 802	1 802
Crown Investments					2 092	2 092
Culture, Heritage & Recreation				6 453	15 265	21 718
(Cultural Affairs & Historical Resources)						
(Fitness, Recreation & Sport)						
Education				32 210	5 818	38 028
Employment Services & Economic Security		515		5 504	3 717	9 736
Energy & Mines	322			6 695	6 469	13 486
Environment & Workplace, Safety & Health		2 060		20 237		22 297
Executive Council						
Finance				3 999	8 505	12 504
Government Services					3 174	3 174
Health				1 175	7 024	8 199
				11 370	4 932	16 302

Table No. AR3

DISTANCES FLOWN BY BASES (km)

Agency or Department	Bases					
	Gods Narrows	Lac Du Bonnet	The Pas	Thompson	Winnipeg	Totals
Highways & Transportation	338	11 056	1 110	82 557	66 151	161 212
Housing			1 191	3 516	9 181	13 888
(Manitoba Housing & Renewal Corporation)						
Industry, Trade & Technology					998	998
Labour		499		11 780	2 028	14 307
(Labour and Manpower)						
(Labour & Employment Services)						
Legislation					1 368	1 368
Man-For			1 287	1 046		2 333
Manitoba Development Corporation					2 454	2 454
Manitoba Hydro				5 512		5 512
Manitoba Telephone System				8 996	483	9 479
Municipal Affairs				1 167	3 170	4 337
Natural Resources	52 125	105 707	35 389	69 353	156 335	418 909
Northern Affairs		3 983		54 016	27 640	85 639
Northern Patient Transportation Program	177			40 587	303 913	344 677
Urban Affairs					724	724
Miscellaneous			571	129	1 416	2 116
Federal			676		965	1 641
(Environment Canada)						
(Transport Canada)						
(Water Surveys of Canada)						
TOTALS	52 962	134 168	40 224	472 034	662 684	1 362 072

The Knob Hill radio transmitter is located approximately 35 km N.E. of Pine Falls, and is mounted on the highest rock out-cropping in the area at 325 m above sea level



The Knob Hill radio transmitter is solar powered and is accessible only by Helicopter or an off road vehicle

RADIO SERVICES

The Radio Services Section of the Department of Highways and Transportation co-ordinates the radio communication requirements for the Manitoba Government. It operates four well-equipped radio shops and four radio service vehicles. The repair and installation shops are located in Winnipeg, Thompson, Dauphin and Lac du Bonnet.

Regular service trips are made from Dauphin to The Pas and from Dauphin to Brandon monthly. In addition service trips are made when necessary to important radio sites, and bi-annually to airports and radio beacon sites.

Radio equipment lists were obtained from the various Government radio users and these will form the basis of the Manitoba Government Radio Inventory. A computer study was launched to determine the best method of computerizing this inventory. A procedure was worked out to handle equipment write-offs in a multi-department environment.

The Department of Highways and Transportation will launch a shared user emergency communication system in Northern Manitoba in 1984-1985. This system will conform with the intent of the consultant's report and with the Department of Communication's policy and licencing requirements. The consultant is working on an improved submission to Cabinet, covering the Manitoba Emergency Communication System. A Radio Communication's policy submission was prepared for inclusion in the General Manual of Administration.

The Manitoba Telephone System installed and leased out a telephone inter-faced radio for the Department of Natural Resources, similar to the system installed and tested by Radio Services in the Norquay Building. We expect that this method will be duplicated elsewhere.

The "lightning detection system" was installed and is working according to plan. A Radio Service's technician received training in this system and is actively engaged in supporting its successful operation.

The Department of Natural Resources continued to improve its radio network and to increase the number of telephone interfaced radio repeaters. In addition a number of mobile radios were purchased which are also capable of accessing the mobile telephone band. This greatly improves the effectiveness and safety of enforcement staff on night duty.

An extension to the M.T.S. repeater at Cranberry Portage was designed to operate from the Sherridan Repeater and the Prospector Repeater. Considerable local improvements were put into effect at Snow Lake to make the radio systems more useable. Scanning type base stations were purchased for Brandon and Shoal Lake. This feature will make it easier for office staff to perform other duties while monitoring more than one radio channel.

The solar charged battery operated radio repeater north of Lac du Bonnet continued to operate consistently except for one lightning problem. The use of solar panels to charge ordinary lead acid car batteries has proven to be a very reliable way to operate a wilderness, unattended radio site.

Radio Services also participated in improving the radio capability of Emergency Health Services, Brandon Mental Health System, Fire Commissioner's Radio System, Emergency Measures Radio System, and those of other users.

Radio Services provided a temporary low band radio network for the Department of Highways & Transportation in The Pas - Flin Flon - Snow Lake area. This involved the interconnection of two low band repeaters using a high band radio link up. It allowed all radio equipped vehicles to communicate to one another in the area, Swan River to Snow Lake. This represented a significant improvement in our technological capability.

The number of radios in use were again increased and area coverage in the Birtle area was improved and will be further upgraded. Radio coverage in the greater Winnipeg area was enhanced by the installation of a radio at the Headingley Weigh Station. This will allow 24 hour radio coverage. Employees' safety, especially in the winter snow plow season, will be improved. The radio control system employed at Highways' Weigh Stations to switch signs on and off, was further extended.

This Section continued to provide support to Government radio users of Two Way Mobile radio equipment. Radio Services also were involved in the supply and maintenance of Radio Base Stations, Hand Held Walkie Talkies, Field Camp Portable Radios, Repeater Stations and related equipment. It is estimated that in addition, approximately $200,000 will be needed over a four year period to replace obsolete mobile telephone equipment with radio - radio telephone combination units.

In addition, it is estimated that the following changes will result from the inventory consolidation in the Department of Highways and Transportation.

Radio Units:

	Planned 83-84	Actual 83-84	Planned 84-85
Station	345	268	308
Mobile	926	882	1092
Portables	750	833	1083
Boats	6	6	6
Aircraft	51	51	51
	2078	2040	2540*

*400 Unit increase resulted from inventory consolidation
*100 Unit increase resulted from new purchases

A modernization program for northern airports was continued and a schedule was established to install radio panels to improve operator efficiency and at the same time, remove obsolete wide band equipment from service. Existing H.F. radio equipment will be relocated at far away airstrips to act as back up in case of radio failure. Plans were made to improve the runway lighting and radio beacon systems. Radio Shop modernization continued at a steady pace and the Dauphin shop was remodeled to provide more and improved working space.

TRANSPORTATION DIVISION

The Transportation Division is responsible for providing advice and analysis to the Government on policy issues concerning freight and passenger services by the air rail, bus, truck and marine modes. The Division also provides transportation-related programs for industry and the public and carries out transportation research and multimodal planning studies. Jurisdiction over the different modes is split between the federal and provincial governments so the Division is heavily involved in federal/provincial and interprovincial liason. The Division acts on behalf of and in close consultation with other Government Departments whose interests are affected by transportation.

Freight Policy

The branch handled grain transportation matters such as:

- Supplying analytical and technical information on statutory grain rates and preparing submissions on same.

- Assisting communities served by the railroads to respond at hearings for proposed rail line abandonment, such as Oakland, Erwood, Inwood and Winnipegosis, resulting in Erwood and Winnipegosis being retained.

- Pursuing commitments from the federal government to provide rail cars for grain movement emphasizing safer and more efficient equipment.

- Promoting the extension of branch line rehabilitation programs involving over 950 km of track.

The branch interacted with the federal govenment to:

- Continue promotion of the Port of Churchill and Hudson's Bay Route.

- Develop terms of reference for regional advisory councils for the new ports system and participating in council activities.

- Participate in studies to identify potential transport capacity shortfalls at the Port of Vancouver and Thunder Bay and to evaluate possible solutions.

The regulatory and legislative related activities of the branch included:

- Assisting Churchill, Gillam, Lynn Lake, Ilford, Cranberry Portage, Thicket Portage and Wabowden to prepare for Canadian Transport Commission public hearings covering rail station agency closures.

- Assisting and intervening in support of Western Canola Crushers' attempts to obtain and maintain freight rate parity for canola products with those rates applying to the raw seed.

- Preparing submissions covering interswitching regulations, collective rail rate making, rail deregulation and dangerous goods movement by rail.

- Presenting a submission at public hearings before the Canadian Transport Commission on the explosion and fire caused by runaway locomotives in the CP Rail yards in Winnipeg.

- Promoting changes to the National Transportation Act to obtain effective redress from discriminatory rail freight rate structures.

- Defending the province's interests with respect to marine conventions covering the United Nations Conventions on Trade and Development as well as Exemptions of Liner Conferences from Combines Legislation.

Passenger Policy

The Passenger Policy Branch prepared position papers and responses to the federal government on:

- Bill S-31, a bill to limit provincial participation in enterprises which are involved in interprovincial or international transportation.

- Changes to Canada's domestic air policy, including deregulation, affecting all levels of air carriers providing unit toll air services.

- Amendments to air carrier regulations.

The branch presented Manitoba's position to the Canadian Transport Commission hearings on:

- Support of a Pacific Western Airline application for a permanent licence for jet service from Brandon to Calgary and Toronto.

- Opposition to a Pacific Western Airline application to suspend jet service to Lynn Lake except during summer.

The Branch also made interventions before the Canadian Transport Commission regarding Group E (HS-748 type aircraft) applications for scheduled and charter authorities in northern Manitoba by Austin/Ilford Riverton Airways and Calm Air:

The Branch provided support for the Towns of Roblin and McCreary in their opposition to VIA's proposal not to build passenger shelters.

The Passenger Policy Branch initiated a Rail Bus Demonstration Project for northern Manitoba. The Department participated with the Government of Ontario and Transport Canada in a joint study of rail passenger services between Winnipeg and Capreol which could result in improved rail passenger services for the Winnipeg to Farlane Campers throughout the year.

The branch undertook:

- Studies on an air ambulance system for newborn high risk infants for the Health Sciences Centre.

- Studies on needs of third level air carriers in Manitoba.

Transportation Programs

The branch provided programs of direct assistance to transportation in Manitoba. The program activities included:

- Providing technical information and assistance to existing and prospective industries, individuals and other government departments and agencies.

- Responding to eleven requests for industry location transportation cost data.

- Processing 44 miscellaneous enquiries for technical information.

- Manning a Department booth and display for the Canadian Truck Show at the Winnipeg Convention Centre and for National Transportation Week.

- Assisting Manitoba firms in resolving problems of Physical Distribution, including inventory control, transportation, warehousing, order processing, customer service, protective packaging, local delivery and materials handling.

- Providing grants to agencies which make a significant contribution to the improvement of transportation services, facilities or research in Manitoba; the Port Churchill Development Board, Hudson Bay Route Association, and the University of Manitoba Centre for Transportation Studies.

- Supporting the Transportation of the Rural Handicapped program, which, in its second full year of operation, provided grants to the following municipalities with transportation services for the handicapped: The Pas, Steinbach, Selkirk, Neepawa, Souris, Boissevain, Emerson, Morden, Glenboro, L.G.D. of Stuartburn and the R.M.'s of Argyle and Gimli.

- Providing construction and operation grants to 26 airports under the Southern Manitoba and the Northern Manitoba Airport Assistance Programs which have continued to be active catalysts in the expansion and upgrading of rural airport facilities.

Research and Planning

The Branch was involved in the following research and planning projects:

- analysing the proposed federal legislation to change the statutory grain rates.

- revising an earlier study to estimate the additional Provincial costs as a result of actual and proposed rail line abandonment.

- initiating and managing a study of benefits of an electrified rail line from Winnipeg to Thunder Bay, Ontario. A seminar on the results of the study was held in June, 1983.

- utilizing the newly acquired System 33 transportation planning software in the Selkirk bridge location study and an analysis of grain delivery patterns in the Interlake Region.

- responding to requests for background information on transportation matters such as railroad investment plans for Western Canada, and grain transportation by truck.

- participating as research staff to the Task Force on Motor Carrier Regulation in Manitoba.

- participating on the Manitoba Data Users Planning Committee.

- participating with representatives of the other provinces in the review of the Canadian Transport Commission Rail Costing Order R-6313.

Other Activities of the Transportation Division

The Director of the Division was asked to chair the Task Force on Motor Carrier Regulation. Division staff provided technical support for the Task Force in its work.

The Transportation Division had responsibility for negotiation with the Federal Government on three transportation related E.R.D.A. Subsidiary Agreements between Manitoba and Canada. The two governments signed three Agreements in early 1984.

1. The Churchill Subsidiary Agreement which directs $93 million to further develop Churchill, its port and access facilities.

2. The Transportation Development Subsidiary Agreement for $137.6 million directed towards a variety of infrastructure improvements and research programs.

3. The Urban Bus Industrial Development Agreement for $50 million to establish Winnipeg as a national centre for the development and manufacture of advanced technology urban buses.

The Transportation Division has taken the lead in the work of the Interdepartmental Committee on Transportation of the Handicapped and provides the Chairman of the Interdepartmental Committee on Transportation for the Transportation Disadvantaged.

The professional staff participated in the following Organizations: Canadian Transportation Research Forum, Central and West Coast Ports Advisory Councils, the Port of Churchill Development Board, Hudson's Bay Route Association, Roads and Transportation Association of Canada, and Western Transportation Advisory Council.

MOTOR VEHICLE BRANCH

The Motor Vehicle Branch is responsible for the administration of driver licencing, motor vehicle registration and driver and vehicle related safety programs.

The basic objective of the Driver Licencing Program is to establish and maintain procedures for issuing of driver licences at Motor Vehicle Branch Offices, by mobile driver examiners and by authorized driver licencing agents in accordance with the provisions of the Highway Traffic Act, regulations and government policy.

Total active drivers in Manitoba in 1983 numbered 595,952. Total suspended drivers numbered 25,564.

The Vehicle Registration Program establishes and maintains systems and procedures designed to register and licence motor vehicles, trailers and snowmobiles in accordance with the Highway Traffic Act and related acts and regulations. In 1982, a program introducing personalized licence plates for Class A1 passenger vehicles was initiated.

Vehicle registrations in 1983 totalled 756,391, commercial vehicle registrations 23,538 and snowmobile registrations 30,311. By the end of 1983, a total of 7,001 personalized plates had been approved and manufactured, and 345 applications were pending.

The primary responsibility of the Driver Testing Section is to examine applicants to determine whether they have the necessary knowledge, skill, physical and mental abilities to safely operate a motor vehicle.

In 1983, 38,750 road tests in the Original Testing Program and an additional 6,362 road tests as part of the Branch's Driver Improvement Program, were administered. Written and oral knowledge tests administered in both programs numbered 115,198.

The Driver Education Section administers a program of High School Driver Education and controls the practices and policies of commercial driving schools and instructors. In addition to the regular courses offered to high school students, the Driver Education Program provides annual courses for students attending the Manitoba School for the Deaf and instruction for students whose physical handicaps require the installation of special vehicle controls. The Motor Vehicle Branch expanded its highway safety program in the driver education field by enacting legislation which allows students fifteen and one-half years of age to obtain an instruction permit. Thirty-eight of the provinces 48 school divisions are currently offering the 'expanded' program.

In the school year 1983-84, 283 instructors conducted courses in 104 high schools. A total of 6,568 high school students completed the course. A total of 3,255 students, 2,162 urban and 1,093 rural, participated in the fifteen and one-half year old Driver Education Program.

The Manitoba Bicycle Operator's Training Program and the Manitoba Bicycle Safety Program is the responsibility of the Snowmobile Safety Section. The section administers the Snowmobile Act and those sections of the Highway Traffic Act pertaining to the use of bicycles and mopeds, and consequently reviews traffic accident reports falling within these categories.

The Bicycle Safety Training Program, based on the Safety Council's Safe Bicycling Course, is designed to teach children ages six to thirteen how to properly ride a bicycle and at the same time to provide them with the knowledge to recognize and avoid hazardous traffic conditions.

During the year of 1983, 1,863 individuals completed the Snowmobile Training Course. In addition, the Bicycle Safety Program instructed 33,331 individuals in proper and safe cycling principles.

The maintenance of driving records is an operation which involves not only the compilation of driving infractions, but also the monitoring of subsequent records. This function is performed by the Driver Records and Suspensions Section.

The primary function of the Driver Improvement and Control Program is to provide rehabilitation or impose suspension in order to remove hazardous drivers from the roads. The program is progressive and individuals are provided with many opportunities for rehabilitation.

In 1983, 5,911 hearings were conducted. Of this total, 3,302 drivers were suspended, and 2,460 placed on probation.

A total of 29,227 licence suspensions were imposed.

The primary objective of the Medical Section is to establish a system for the review of a driver's fitness to safely operate a motor vehicle.

A total of 19,248 requests for medical examination were issued as a result of which, 539 medical suspensions resulted.

The Motor Vehicle Inspection Program carries out the mechanical safety inspection of vehicles in accordance with standards prescribed, holds surveillance over the safety standards of components and accessories sold for use on registered vehicles, and supports other divisions of the Government respecting vehicle standards.

In 1983, a total of 32,341 vehicles were initially inspected. Of these 12,069 passed inspection of the first attempt, 19,763 failed, and 509 were of such hazardous condition that immediate suspension of registration resulted.

Compulsory inspection of passenger cars, light trucks and heavy duty vehicles totalled 42,543.

The Dealer Section is responsible for the development and administration of a program regarding licencing and control of automobile dealers, salesmen, and automobile wreckers in accordance with the Highway Traffic Act, Regulations and departmental policy.

During the year 1983, 3,282 plate dispositions and 1,378 permit dispositions were issued.

The Administrative Services Section provides a series of administrative functions within the Motor Vehicle Branch, and is responsible for the operation of an Information Centre. The centre maintains an information retrieval system which provides information on vehicle registrations and driver's licences.

The Financial Services Section collects, accounts for and distributes Government revenues from licencing and insuring both drivers and vehicles. It disburses and accounts for expenditures incurred by the Motor Vehicle Branch, maintains financial records for the purpose of budgetary planning, and provides revenue and expenditure analysis reports to management on a regular basis. The Section provides a financial support function to 11 programs within the Motor Vehicle Branch, seven Branch Offices, and in excess of 225 Driver Licence Agents.

The Systems and Data Processing Section organizes the collection, storage, transmission and processing of data. This objective is achieved through the effective use of operating procedures and computer technology.

The objective of the Training Services Section, established in 1983, is to provide a support service for the training and development of Motor Vehicle Branch Staff, as well as training of outside agencies utilizing Motor Vehicle Branch forms and information. As well, it serves as a support service for development of manuals and dispersing of informational brochures on Highway Safety.

Motor vehicle accidents numbered 31,877 in 1983, with a total of 126 fatal accidents resulting in the loss of 133 lives. Snowmobile accidents numbered 79, and involved six fatal accidents, while a total of 280 bicycle accidents involved one fatal accident.

This report covers the calendar year 1983.

THE HIGHWAY TRAFFIC BOARD

The Highway Traffic Board established in 1960 is responsible for administration of The Highways Protection Act, portions of The Highway Traffic Act and The Snowmobile Act.

The members of The Highway Traffic Board are appointed by Order-in-Council and are from all walks of life with various backgrounds. The Staff at present consists of a Board Acting Secretary and Two Administrative Secretaries.

Hearings are usually held in Winnipeg, Brandon and Dauphin and occasionally have been scheduled when required at other areas such as The Pas, Minnedosa and Neepawa. The away from Winnipeg hearings include numerous On-Site inspections, Speed Zone Change Request investigations and Pedestrian Corridor inspections.

The Highways Protection Act

The primary function of the Board is to control structures adjacent to and access onto Provincial Highways, always with safety to the public in mind and also to prevent encroachment that could make further expansions of Provincial Highways costly.

Signs

The Board is in the process of presenting a submission for regulation to deal with Off-Premise Advertising Signs that serve no use to the travelling public.

The Highway Traffic Act

Decisions are made on Traffic Control Devices that are unique to and Uniform throughout the Province that are intended to guide the motorists safely on our highways.

Speed Limit

Speed Limit approvals are made with Board Member investigations and technical information supplied from the Provincial Traffic Authorities.

Pedestrian Corridors

Pedestrian Corridors are considered and approved by the Board from the data received from the requesting authorities and the technical information received from studies and recommendations submitted by the Provincial Traffic Authorities and the City of Winnipeg Professional Engineers.

Snowmobile Act

This Act establishes and the Board is responsible for, the locations where snowmobiles may be operated on or across roadways. This Board is responsible for approval of municipal by-laws respecting such locations and has not approved any by-laws to date although a few Municipalities have requested such routes.

The Activities of The Highway Traffic Board Summary since 1979 to 1983 are as follows:

Applications	1979	1980	1981	1982	1983
Structures & Access	492	412	463	442	322
Speed Limits	70	48	54	57	30
Pedestrian Corridors	5	8	9	5	10
Signs	--	--	--	--	63
Others	15	4	5	4	5
	582	472	531	508	430
Hearings Held					
Winnipeg	35	31	34	37	29
Brandon	11	11	11	11	8
Dauphin	11	11	11	11	8
Other Locations	2	2	0	2	0
	59	55	56	61	45
Permits Issued					
Structures & Access	409	366	355	319	235
Signs	--	--	--	--	45
Permits Denied					
Structures & Access	--	--	--	--	36
Signs	--	--	--	--	18
Regulations Filed					
Speed Limits and Others	20	12	9	10	9

THE MOTOR TRANSPORT BOARD

The Motor Transport Board exercises both an intra-provincial and extra-provincial jurisdiction in the regulation of the transportation of passengers and freight by motor carriers. It is statutorily created by Section 298 of The Highway Traffic Act and acquires its mandate and executes its responsibilities for its intra-provincial jurisdiction pursuant to Part VIII of the Act. Its extra-provincial jurisdiction arises out of The Motor Vehicle Transport Act (Canada), which authorizes the Board to regulate motor transport extra-provincially "in like manner" to its intra-provincial jurisdiction.

In executing its role, the Board, which has eight members, controls entry into the for-hire truck and bus industry on an intra and extra-provincial basis and sets transportation rates and charges intra-provincially. It also establishes minimum insurance and fidelity requirements and generally supervises carriers' operations for the protection of the public.

Every province in Canada has a Board or Commission which regulates its motor transport industry in a similar fashion, particularly with respect to extra-provincial operations. The national nature of transportation service, has made it necessary for there to be continuing liaison and co-operation between the Provinces and the Federal Government. This has been achieved through an organization of transportation officials known as the Canadian Conference of Motor Transport Administrators (C.C.M.T.A.) which answers to the Council of Ministers responsible for transportation and highway safety. C.C.M.T.A. is divided into four Standing Committees:

(1) Standing Committee on Drivers and Vehicles;
(2) Standing Committee on Motor Carriers;
(3) Standing Committee on Traffic Safety Programs;
(4) Standing Committee on Canadian Agreement on Vehicle Registrations.

The Board is actively involved in the Standing Committee on Motor Carriers and has taken a high national profile role since 1975. The Standing Committee has undertaken to reduce the administrative barriers respecting transportation by developing uniformity in regulatory practice throughout Canada.

The Board has been actively pursuing its policy of full and free licencing and registration reciprocity with American jurisdictions. The Board has been encouraging the free flow of goods and transportation services with the United States of America for the betterment of shippers, consumers and carrier communities. The Board has signed full and free reciprocity agreements with thirty-one States in the United States of America, including a reduced licence fee agreement with the State of North Dakota. Currently, the Board is negotiating with four United States jurisdictions for full and free reciprocity privileges.

The Board participated in three joint hearings with other jurisdictions to hear concurrently the evidence of applications made by extra-provincial public service vehicle carriers.

During the year, the Board held 167 public hearings to hear applications for public service vehicle authority. Applicants are required to prove, through their witnesses, that the existing transportation service is insufficient or that the public convenience will be further promoted by their application.

During the year, the Board also held 50 General Board Meetings to deal with various matters including:

- considering applications for public service vehicle authority that are uncontested;
- preparing public service vehicle applications for gazetting purposes; and
- extending and issuing temporary authorities.

At its hearings, the Board dealt with 465 applications, which were disposed of as follows:

Approved	287
Denied	16
Withdrawn	45
Cancelled	18
Postponed	2
Dismissed	13
Joint Hearings	3
Pending	23
Show Cause	58
	465

Included in the 465 applications were 294 federal carrier applications seeking extra-provincial operating authority. The Board disposed of the applications as follows:

Approved	179
Denied	11
Withdrawn	39
Cancelled	16
Postponed	1
Dismissed	11
Pending	11
Show Cause	26
	294

The Board approved 49 designated commodity applications during the year. These are included in the total of 465 applications dealt with by the Board, and consisted of:

- 32 designated commodity applications related to agricultural commodities in their final movement internationally;

- 17 household goods and personal effects, as described in Tariff M101.

The Board held a number of public hearings to consider amendments and increases to the Standard Tariff of Tolls governing the movement of freight within the Province.

The Board continues to play an active role in the Canadian Conference of Motor Transport Administrators. Administrators are seeking to develop uniform practices, procedures and policies relating to the regulation of extra-provincial motor carriers across Canada.

Compliance and Regulation

A Director of Policy and Regulation was appointed in September, 1983 to the Board's staff. Much of the initial work of this directorate was to institute programs which would encourage willing compliance with the Board's regulations. There are strong indications that this initiative is being assimilated into the regulatory process. This observation is based on the number of inquiries from interested parties for informatin and counselling which results in legal and authorized transportation activities being confirmed prior to operation in Manitoba.

The Board staff investigated and issued 253 Temporary Public Service Vehicle authorities. The temporary authorities were issued when it was established that the authorized carriers could not provide the required service or did not object to the issuance of the temporary authority.

The Board staff also issued 764 Letter Permits, temporarily allowing the use of motor vehicles not otherwise authorized.

The Board's inspectors investigated and concluded 157 filed complaints that were submitted to the Board by shippers, consignees, carriers and the general public.

Revenue Comparison

The following is a revenue comparison of the fees collected by the Motor Vehicle Branch, for licence fees of Public Service Vehicle trucks, buses, commercial trucks and liveries which are regulated and supervised by the Motor Transport Board.

Revenue Comparison 1982/83 - 1983/84

The Highway Traffic Act	1982/83	1983/84	Increase or Decrease
P.S.V. Freight Trucks Trailers	$3,283,083.00	$3,064,931.00	- $218,152.00
P.S.V. Passenger Buses	61,164.00	65,539.00	+ 4,375.00
Commercial Trucks Trailers	2,800,881.00	2,914,826.00	+ 113,945.00
Inter-Municipal Liveries	29,368.00	31,090.00	+ 1,722.00
Miscellaneous	585,485.00	675,210.00	+ 89,725.00
	$6,759,981.00	$6,751,596.00	- $ 8,385.00

Miscellaneous revenue referred to above is further broken down as follows:

Single trip Permits	$ 476,221.00
Transit and Breakdown Permits	228.00
Limited Permits	8,206.00
Administration Fees Manitoba Based	28,854.00
Canadian Agreement on Vehicle Registration Administration Fees	98,563.00
Motor Transport Board Filing and Hearing Fees and Costs	63,138.00
	$ 675,210.00

Revenue 1983 - 1984 Licence Year

P.S.V. Trucks, Trailers, Driveaway Manitoba Based	$2,056,490.00	
- Weight Increases	11,345.00	
- Change of Vehicle	2,983.00	
P.S.V. Trucks, Out-of-Province Based	994,113.00	$3,064,931.00
P.S.V. Passenger Buses, Manitoba Based	$ 32,925.00	
- Change of Vehicle	27.00	
P.S.V. Passenger Buses, Out-of-Province Based	32,587.00	$ 65,539.00
Commercial Trucks, Trailers, Driveaways Manitoba Based	$2,688,104.00	
- Weight Increases	22,810.00	
- Change of Vehicle	3,791.00	
Commercial Trucks, Out-of-Province Based	$ 200,121.00	$2,914,826.00
Liveries		
- Country	$ 9,409.00	
- Change of Vehicle	4.00	$ 9,413.00
- City	$ 21,575.00	
- Change of Vehicle	102.00	$ 21,677.00

Comparative Statement of Vehicles Registered

Vehicles Base-Plated in Manitoba	1982/83	1983/84
Public Service Vehicle Trucks	2,914	2,786
Public Service Vehicle Quarterly	316	188
Public Service Vehicle Trailers	13	13
Public Service Vehicle Driveaways	35	15
Commercial Trucks	16,059	16,905
Commercial Trucks Quarterly	778	578
Commercial Trailers	695	764
Commercial Driveaways	22	26
Passenger Buses	137	143
Inter-Municipal Liveries	633	657
	21,602	22,075

Vehicles Registered under
Canadian Agreement on Vehicle Registration

Manitoba Based	663	Commercial (CT)
	1,338	PSV
	85	U-Drive
	2,086	
Out-of-Province Based	1,424	Commercial (CT)
	4,408	PSV
	228	U-Drive
	6,060	

Comparative Statement of Fees Collected by the Board

	March 1/81 to February 28/82	March 1/82 to February 28/83	March 1/83 to February 29/84
Application Fees	$15,125.00	$17,050.00	$19,975.00
Respondent Fees	9,850.00	12,700.00	15,100.00
Hearing Fees	14,650.00	17,150.00	20,000.00
Disciplinary Action Fees	12,120.00	13,445.00	10,800.00
Net Revenue	$51,745.00	$60,345.00	$65,875.00

This report is for the Licence Year February 29, 1984.

LICENCE SUSPENSION APPEAL BOARD

The Licence Suspension Appeal Board was first established by Legislation in 1959 and commenced operations in December 1959. Presently this Board is provided for under Section 252 Highway Traffic Act with the Board's authority, jurisdiction and procedures detailed under Section 253 Highway Traffic Act.

Primarily an appeal vehicle for suspensions of driver's licences, this Board also provides an appeal vehicle for appeals against suspension, cancellation and denials of Driving School Permits, Driving School Instructor Permits, Automobile Dealers Permits and Salesman's Permits. Suspension of driver's licence for medical reasons have an appeal vehicle through the Medical Review Committee and not the Appeal Board. The Appeal Board also has jurisdiction over Court Suspensions under the Highway Traffic Act and Juvenile Court Suspensions only when authorized by that Court.

The Board almost exclusively imposes restrictions on licences where a remission is granted and only authorize a full remission of suspension under very special criteria. A further Statutory right of appeal against decisions of the Appeal Board are to Country Court where the decision is final.

The 1983 Annual Report made specific reference to the new composition of this Board with the only change being that of Chairman. No procedural changes of significance have been made with the present format and schedule of hearing locations continuing from the previous year, detailed as follows.

The Board consists of a Chairman (Winnipeg), Vice-Chairman (Leaf Rapids), and Board Members each from Brandon, LaBroquerie, Fort Alexander, Lockport, Petersfield and three Members from Winnipeg. The member from Brandon covers hearings in Dauphin, the members from LaBroquerie and Fort Alexander cover hearings at Steinbach and Beausejour. The member (Vice-Chairman) from Leaf Rapids attends hearings on "northern trip" at The Pas and Thompson when scheduled. All members attend Winnipeg hearings on occasion.

The majority of applications are processed through the Winnipeg hearings understandably, with hearings held in Steinbach (every 4 weeks), Beausejour (every 4 weeks), Brandon (bi-weekly), Dauphin (every 4 weeks), and The Pas and Thompson as needed (approx. every 6 weeks). The hearings outside of Winnipeg are attended by at least two members of this Board and one staff member. Hearings are scheduled to provide for maximum staff in Winnipeg where similtaneous hearings are scheduled. Further specific details are provided in this report.

All hearings are "half day hearings" as such with usually twelve applications per hearing, however, out of Winnipeg hearings are frequently up to eighteen applicants per half day.

During 1983 there was an increase of approximately 2.7% in the total number of applications received (103). This increase is only marginal and is not indicative of any marked increase or decrease in anticipated volumes for 1984.

There were a total of 209 applications cancelled for various reasons such as this Board not having jurisdiction, applications withdrawn and reapplications where hearings were refused by the Board. Waiver of fee was granted under the provisions of Section 253 (3) (b) Highway Traffic Act in only eight applications during 1983. As of December 31, 1983 there were 113 applications held with decisions pending. These deferred for various reasons such as applicant to file documentation re: prospective employment, alcoholism reports, inability to establish exceptional hardship at this time. (This is a normal carry over year to year).

This report covers the calendar year 1983.

Description of Suspensions

(1) Section 238 Highway Traffic Act - Statutory suspension imposed automatically on convictions of a Criminal Code of Canada offence.

(2) Section 246 Highway Traffic Act - Suspension imposed by the Registrar of Motor Vehicles on review of driving record.

(3) Section 238 Highway Traffic Act & 246 Highway Traffic Act - Combination of above two convictions.

(4) Court Suspension (Highway Traffic Act) - Suspension imposed by Court on Highway Traffic Act convictions.

(5) Probationary Licence [illegible]3-13 Highway Traffic Act - Suspension imposed by the Registrar of Motor Vehicles arbitrarily to probationary drivers involved in accidents and/or convictions.

(6) Refusal to issue by Registrar - Refusal to issue Salesman's Permit, Driving School Permit, Driving Instructor's Permit by Registrar.

SUMMARY OF APPLICATIONS

The Licence Suspension Appeal Board

Total Applications Received - 3,889
Total Hearings Held - 324
Disposition of applications by type of suspension:

(1)	Section 238 Highway Traffic Act		
	Restricted remission	1,798	
	Full remission	189	
	Application denied	562	
	Sub Total		2,549
(2)	Section 246 Highway Traffic Act		
	Restricted remission	673	
	Full remisssion	0	
	Application denied	202	
	Sub Total		875
(3)	Section 238 & 246 Highway Traffic Act		
	Restricted remission	2	
	Full remission	2	
	Application denied	3	
	Sub Total		7
(4)	Court Suspension Highway Traffic Act		
	Restricted remission	6	
	Full remission	0	
	Application denied	1	
	Sub Total		7
(5)	Probationary Licence Suspension		
	Restricted remission	57	
	Full remission	0	
	Application denied	7	
	Sub Total		64
(6)	Out of Province Suspensions		
	Restricted remission	7	
	Full remission	0	
	Application denied	2	
	Sub Total		9

Miscellaneous

(7)	Refusal to issue by Registrar	2	
	Applications pending	113	
	Applications cancelled	209	
	Suspension expired	54	
	Sub Total		378
	TOTAL		3,889

Table No. MV1

APPEAL BOARD STATISTICS
Hearings Held & By Location

Month	Applications Received	Hearing Locations							Total Hearings
		Winnipeg	Brandon	Dauphin	Steinbach	Beausejour	Thompson	The Pas	
January	327	22	4	1	1	1	-	-	29
February	310	21	3	1	1	1	1	-	28
March	347	22	4	2	1	1	-	2	32
April	338	17	4	1	1	1	-	-	24
May	364	19	4	1	1	1	1	2	29
June	327	17	4	1	3	1	-	-	26
July	311	18	5	2	1	1	1	1	29
August	299	16	3	2	1	1	-	-	23
September	307	19	4	1	1	1	1	2	29
October	343	16	2	1	1	1	-	-	21
November	309	24	4	2	1	2	1	2	36
December	307	12	3	1	1	1	-	-	18
TOTALS	3,889	223	44	16	14	13	5	9	324
Percent Change Over 1982	+2.7%	+8%	NIl	-27%	-30%	NIL	-17%	-10%	NIL

Table No. MV2

Application Volume and Hearings Comparison 1980 to 1983 Inclusive

Month	Applications Received				Total Hearings Held			
	1980	1981	1982	1983	1980	1981	1982	1983
January	277	316	274	327	31	28	23	29
February	326	302	260	310	26	23	25	28
March	288	401	348	347	31	28	25	32
April	324	361	347	338	27	35	29	24
May	318	356	368	364	30	32	22	29
June	314	396	357	327	27	29	36	26
July	309	293	324	311	27	28	25	29
August	287	269	310	299	26	24	35	23
September	348	312	296	307	26	31	34	29
October	341	350	305	343	33	27	24	21
November	305	349	331	309	25	23	25	36
December	263	286	266	307	31	29	23	18
TOTALS	3,700	3,991	3,786	3,889	340	337	326	324

Table No. MV3

Applications Processed and Hearing Locations

Location	No. of Hearings Held	No. of Applications Processed
Winnipeg	223	2,399
Brandon	44	517
Dauphin	16	207
Steinbach	14	173
Beausejour	13	119
The Pas	9	91
Thompson	5	61
TOTALS	324	3,567
Applications Pending or Cancelled		322

Table No. MV4

Hearing Days - Locations & Frequency

Location	Frequency	Days	Times	Comments
Winnipeg	Weekly	Variable Days	Morning & Afternoon	No specific firm days
Brandon	Bi-weekly	Thursdays	Morning & Afternoon	Hearings on successive days
Dauphin	Every Four Weeks	Wednesdays	Morning & Afternoon	Hearings on successive days
Steinbach	Monthly	Wednesdays	Morning & Afternoon	Alternating on Bi-weekly basis Steinbach - Beausejour
Beausejour	Monthly	Wednesdays	Morning & Afternoon	
The Pas	Approx. every six weeks	Thursday	Morning & Afternoon	Hearings on successive days
Thompson	Approx. every six weeks	Friday	Morning & Afternoon	Hearings on successive days

THE TAXICAB BOARD

The Taxicab Board, created by the Taxicab Act, (Chapter T10, Statutes of Manitoba), issued a total of 2,152 Taxicab Drivers Licenses from March 1, 1983 to February 29, 1984.

The Board rejected 29 applications for Taxicab Drivers Licenses because the applicants either lacked sufficient knowledge of the City of Winnipeg, were on probation at the Safety Division, had insufficient driving ability or otherwise failed to meet the Board's requirements for a Taxicab Driver.

The number of Taxicabs authorized to operate in the City of Winnipeg remained at 400, the same as in the previous year.

The Taxicab Board authorized the licensing of 19 additional vehicles to be used for weddings, funerals, V.I.P. and sightseeing tours, including limousine service from the Winnipeg International Airport to downtown hotels.

For many years, the Taxicab Board has allowed licensed Taxicab Operators to put on temporary, extra taxicabs during the Christmas and New Year period, between December 1, 1983 to February 29, 1984. There were 45 additional taxicabs operating during that period.

There are 395 taxicabs equipped with two-way radios leaving five taxicabs in Winnipeg not equipped with radios.

The Taxicab Board heard 12 reports from its Inspectors. The Taxicab Inspectors made 1,782 individual inspections of taxicab meters during this period, an increase of 456 from the previous year. This is due to the fact that a meter rate increase took effect during that period.

Due to changes in the Highway Traffic Act, The Taxicab Board is no longer issuing license plates. Taxicab and U-Drive License plates are now being issued by the Motor Vehicle Branch, however, the Taxicab Board is continuing to issue Taxicab Driver Licenses, Taxicab Business Licenses and Drive Yourself Booking Office Licenses.

Summary of Revenues:

Taxi and U-Drive License Plates	$ 114,536.00	
Change of Vehicle	1,903.00	$ 131,902.00
Taxicab, U-Drive Business License and Taxicab Driver License	2,257.00	2,257.00
		$ 134,159.00

Summary of Licenses Issued:	82/83	83/84
To operate a Taxicab Business	213	197
To operate a Taxicab	400	400
To operate a Taxicab Temporarily under permit	29	15
Drive Yourself Business License	82	89

NOTE: This Report is for the License Year March 1, 1983 to February 29, 1984.

Manitoba

Highways and
Transportation

ADMINISTRATION SECTION

TABLES A1, THROUGH A11

Table No. A1

SUMMARY OF GROSS EXPENDITURES

Administration and Subsidiary	$ 25,652,567.21
Aids	5,189,160.06
Construction	85,376,007.04
Maintenance	48,030,703.19
Mechanical Division	84,719.81CR.
Warehouse Stores	512,386.43
Motor Vehicle Branch	13,184,784.06
Miscellaneous **	9,574,458.43
Air and Radio Services *	2,524,846.34
Winter Truck Roads	2,170,174.26
	$ 192,130,367.21

** 15-7H-10 Recovered from Northern Affairs	$4,198,042.31
* 15-7D-4 Recovered from Northern Affairs	702,821.78

Table No. A2

ADMINISTRATION AND SUBSIDIARY EXPENDITURES

APPROPRIATION	DIVISION	AMOUNT
15-1A & B	Administration	$ 1,947,412.88
15-1C	Computer Services	773,881.76
15-1D	Transportation Division	841,233.27
15-2A	Operations & Contracts	1,309,013.63
15-2B	Laboratory	1,244,214.70
15-2C	Surveys & Titles	874,289.07
15-2D	Bridge Office	1,296,903.39
15-2E	Traffic Section	401,715.24
15-2F	District Offices	8,373,929.33
15-2G	Traffic Inspection	1,775,575.90
15-3A	Planning & Design	1,828,226.85
15-4C	Northern Airports	2,097,453.83
15-4D	Marine Services	640,672.67
15-5	Air/Radio Services	2,248,044.67
		$25,652,567.21

AIDES TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGES AND WORK IN UNORGANIZED TERRITORY APPROPRIATION 15-7C-1, 15-7C-2 & 15-1D-3

PURPOSE	AMOUNT
Aides to Cities, Towns, Villages and Unincorporated Villages	$1,007,840.27
Grant equal to 50% of the cost of approved street construction projects.	
Work in Unorganized Territory and Disorganized Municipalities	3,738,522.55
Activity provides for construction and maintenance in Unorganized Territory on 50/50% or 100% basis depending on category of road.	
Flood Emergency	312,870.95
Grant-Innovative Urban Transportation	129,926.29
Grant for the Transportation of the Handicapped	
	$5,189,160.06

Table No. A4

CONSTRUCTION

APPROPRIATION	PURPOSE	AMOUNT
15-7A	Provincial Trunk Highways	$40,758,230.19
	Provincial Roads	30,765,296.76
	Northern Roads	13,852,480.09
		$85,376,007.04

Table No. A5

MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-7B	General Maintenance on Provincial Trunk Highways	$14,612,417.53
	General Maintenance on Provincial Roads	21,391,360.58
	Miscellaneous Expenditures	
	Overheads	6,507,259.14
	Vacation & Sick Leave	2,128,188.92
	Traffic Control	3,178,783.77
	Maintenance Management	215,140.99
	Ferries	35,000.00
	Maintenance Materials Holding Account	1,599.77
	Administrative Overheads	39,047.51CR.
		$48,030,703.19

Table No. A6

MECHANICAL DIVISION
APPROPRIATION 15-4A

Other Expenditures)		
Equipment & Tools)	$18,699,063.27	
Building & Storage Yards)		
Sub Total		$18,699,063.27
Less Machine Rentals		18,783,783.08
	TOTAL	$ 84,719.81CR.

WAREHOUSE STORES
APPROPRIATION 15-4B

Other Expenditures	$ 519,459.45	
Purchases	4,848,000.54	
Sub Total		$5,367,459.99
Less Recoveries		4,855,073.56
TOTAL		$ 512,386.43

MOTOR VEHICLE BRANCH
APPROPRIATION 15-6

APPROPRIATION	PURPOSE	AMOUNT
15-6A	Management Services	$ 5,777,841.40
15-6B	Driver Licencing and Vehicle Registration	1,546,719.62
15-6C	Safety	4,938,640.96
15-6D	Highway Traffic Board Highway Transport Board, Taxicab Board and Licence Suspension Appeal Board	921,582.08
		$13,184,784.06

Table No. A9

MISCELLANEOUS EXPENDITURES

APPROPRIATION	PURPOSE	AMOUNT
15-7C-3A & 3B	Maintenance & Construction	$3,730,410.22
15-7D-2B	Gravel Exploration	166,554.33
15-7D-2C	Mechanical Division Equipment	512,643.41
15-7D-2D	Water Bomber Contract	147,122.00
15-7D-2E	Equipment Storage Buildings	514,666.04
15-7D-2F	Improvements to Weigh Scales	42,464.90
15-7D-2G	Ferry Landing Improvements	46,174.44
15-7D-2K	Aircraft Purchases	135,706.05
15-7D-2J	Handicap Transit Vans	147,628.74
15-7F	Purchase Crushed Gravel	82,509.74CR.
15-7G	Bridge Timbers & Materials Stockpiled	14,376.83
15-7E	Land	1,178.90
15-7H-1	Jobs Fund Construction** (Recoverable from Northern Affairs)	4,198,042.31
		$9,574,458.43

**See Table No. A1

AIR AND RADIO SERVICES, AIRPORT OPERATIONS AND MAINTENANCE, MARINE SERVICES

APPROPRIATION	PURPOSE	AMOUNT
15-4C-2	Other Expenditure	$1,141,253.02
15-7D-2A	Minor Improvements to Airports	482,543.22
15-7D-3A	Airport Development * (Recoverable from Northern Affairs)	304,215.89
15-7D-2H	Resource Roads	198,228.32
15-7D-3B	Community Roads * (Recoverable from Northern Affairs)	398,605.89
		$2,524,846.34

* See Table No. A1

WINTER TRUCK ROADS, CONSTRUCTION AND MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-7D-1A	Winter Truck Roads	$ 100,224.41
15-7D-1B	Winter Truck Roads	2,069,949.85
		$2,170,174.26

Manitoba

Highways and
Transportation

CONSTRUCTION SECTION

TABLES C1, THROUGH C6

Table No. C1

HIGHWAY CONSTRUCTION
KILOMETRES OF WORK COMPLETED
VARIOUS APPROPRIATIONS

	Grading	Gravel-ling	Base Course	Bituminous Pavement	Asphalt Surface Treatment	Seal Coat	Calcium Chloride	Concrete Pavement
Provincial Trunk Highways (Table No. C2)	135.3	103.7	111.3	267.3	7.5	32.0	8.6	17.7
Provincial Roads (Table No. C3)	247.9	209.2	127.5	81.9	79.0	43.1	285.9	0.5
Northern Roads (Table No. C4)	77.6	23.7	40.2	-	38.7	-	4.1	-
Provincial Highways 15-4A, Contingencies, Special Projects & Stop Gap (Table No. M1)	-	-	-	-	-	2.5	-	-
	460.8	336.6	279.0	349.2	125.2	77.6	298.6	18.2

HIGHWAY CONSTRUCTION
PROVINCIAL TRUNK HIGHWAY
APPROPRIATION 15-7A

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
1	7439	Portage la Prairie & Winnipeg	Overhead Signing	$ 6,544.70
	7446	Kemnay - Alexander R.M. of Whitehead 16.8 km	Bituminous Pavement	13,695.45
	7466	E. Junction P.R. No. 340 - E. Junction P.T.H. No. 10 R.M. of Cornwallis & Elton 20.0 km	Right-of-Way	23,199.40
	7467	P.R. No. 250 - Town of Oak Lake R.M. of Whitehead & Sifton 21.8 km	Preliminary Engineering Right-of-Way	48,571.55
	7468	P.T.H. No. 21 - P.R. No. 259 R.M. of Sifton, Woodworth & Wallace 28.0 km	Preliminary Engineering	2,302.42
	7478	Alexander - Oak Lake R.M. of Whitehead & Sifton 22.9 km	Base Course Bituminous Pavement	80,020.24
	7514	New Interchange at P.T.H. No. 12 R.M. of Ste. Anne	Detour	11,949.72
	7516	P.T.H. No. 1A - West Jct. P.T.H. No. 10, R.M. of Elton & Whitehead 13.7 km	Preliminary Engineering	47,315.37
	7517	W. of Alexander - P.T.H. No. 21 R.M. of Whitehead 11.5 km	Grade 11.5 km Gravel 11.5 km	350,249.19
	7518	P.T.H. No. 21 - Oak Lake R.M. of Sifton 10.2 km	Grade 3.6 km Gravel 3.6 km	501,470.19
	7519	Oak Lake - Virden R.M. of Sifton, Woodworth & Wallace, Town of Oak Lake 30.3 km	Bituminous Pavement 30.3 km	1,415,528.02
	7520	River Lot 24 Fortier R.M. of Portage la Prairie 21.6 km	Bituminous Pavement 21.6 km	1,876,700.05

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
1	7527	Oak Lake By-pass R.M. of Sifton 5.4 km	Preliminary Engineering Right-of-Way	$ 39,806.44
	7542	E. of P.R. No. 332 R.M. of Cartier 1.6 km	Detour	46,809.05
	7563	Vicinity of Austin (Eastbound Lanes) R.M. of North Norfolk	Seal Coat	31,370.31
	7579	Assiniboine River Bridge on Brandon By-Pass R.M. of Whitehead 1.0 km	Bridge Approaches	312,509.21
	7591	P.T.H. No. 100 - Plessis Rd. R.M. of Springfield 3.7 km	Preliminary Engineering Right-of-Way	386.18
	7606	West Perimeter - W. of Headingley, City of Winnipeg 6.0 km	Right-of-Way	14,780.04
1 & 26	7569	R.M. of St. Francois Xavier	Illumination	11,884.00
1A	7441	C.P.R. Railway Tracks - West Interchange City of Portage la Prairie & R.M. of Portage la Prairie 2.0 km	Base Course Bituminous Pavement	49,553.74
	7515	Rosser Ave. - 19th St. City of Brandon 1.6 km	Bituminous Pavement	7,848.46
	7557	C.P.R. Railway Tracks - West Interchange City of Portage la Prairie & R.M. of Portage la Prairie 2.6 km	Preliminary Engineering Right-of-Way Utilities	84,078.32
	7586	P.T.H. No. 26 - 10th St. E. City of Portage la Prairie & R.M. of Portage la Prairie 2.1 km	Preliminary Engineering	398.61
	7624	Saskatchewan Ave. 5th St. E. - 4th St. W. R.M. of Portage la Prairie 1.0 km	Bituminous Pavement 1.0 km	33,025.70

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
2	7434	St. Claude - Elm Creek R.M. of Grey 25.5 km	Bituminous Pavement 25.5 km Shoulder Gravel 25.5 km	$2,393,892.34
	7460	N. of NE. 1/4 Sec. 21-8-5W. R.M. of Grey	Detour Bridge Approaches	14,251.65
	7470	P.R. No. 342 - P.T.H. No. 18 R.M. of South Cypress 38.8 km	Preliminary Engineering	3,095.44
	7471	P.T.H. No. 18 - S. Junction P.T.H. No. 10 R.M. of Oakland 25.6 km	Preliminary Engineering	39,530.28
	7575	P.T.H. No. 2 & P.T.H. No. 5 R.M. of Cypress	Supply & Erect Signs	7,002.12
	7595	P.R. No. 244 - W. Boundary R.M. South Norfolk R.M. of South Norfolk 17.4 km	Preliminary Engineering Right-of-Way Utilities	16,820.46
3	7533	N. Junction P.T.H. No. 18 W. Junction P.R. No. 346 16.1 km	Grade Widening 16.1 km	752,594.15
	7588	P.T.H. No. 10 - Whitewater Access Road R.M. of Morton 16.3 km	Preliminary Engineering	36,492.77
	7620	Deloraine - Medora R.M. of Winchester & Brenda	Stockpile Seal Coat Aggregate	27,820.80
3 & 18	7440	U.S.A. Boundary - Killarney R.M. of Turtle Mountain 21.8 km	Base Course 2.4 km A.S.T. 2.4 km	208,383.25
5	7451	E. of P.R. No. 274 - W. of Grandview R.M. of Gilbert Plains & Grandview 18.4 km	Base Course 18.4 km Bituminous Pavement 18.4 km	40,550.96
	7522	NW Corner Sec. 34-12-15W. E. Junction P.T.H. No. 16 R.M. of Langford & Town of Neepawa 18.4 km	Base Course 18.4 km Bituminous Pavement 18.4 km	857.60

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
5	7538	Dauphin By-Pass R.M. of Dauphin 6.0 km	Grade	$ 51,264.52
	7565	P.T.H. No. 19 - P.R. No. 235 R.M. of McCreary & Ste. Rose 41.4 km	Preliminary Engineering Right-of-Way Utilities Grade Gravel	14,170.51
	7578	S. Junction P.T.H. No. 10 South Limit of Dauphin R.M. of Dauphin 5.4 km	Preliminary Engineering	4,151.18
5 & 10	7480	Dauphin By-Pass 6.0 km	Preliminary Engineering Right-of-Way Utilities	47,877.59
5 & 235	7570	P.R. No. 276 R.M. of Ste. Rose	Illumination	3,062.00
5 & 276	7619	East of Ochre River - P.R. No. 235 & P.T.H. No. 5 N. R.M. of Ste. Rose & Ochre River 22.6 km	Purchase Stockpiled Seal Coat Aggregate	21,693.10
6	7615	km 124 - km 182 (Saskatchewan River Bridge) Unorganized Territory 58.0 km	Purchase Stockpiled Seal Coat Aggregate	80,011.88
	7616	km 34 - km 66 (North of Gypsumville) Unorganized Territory 32.2 km	Purchase Stockpiled Seal Coat Aggregate	47,993.70
7	7445	P.R. No. 517 - P.R. No. 228 R.M. of Rockwood 14.8 km	Preliminary Engineering Right-of-Way Utilities	324,135.72

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
7	7448	N. of P.T.H. No. 101 - N. of P.T.H. No. 67 R.M. of Rosser & Rockwood 8.9 km	Base Course 1.5 km Concrete Pavement 1.5 km	$ 654,196.52
	7464	P.R. No. 228 - P.R. No. 229 R.M. of Rockwood 14.2 km	Preliminary Engineering Right-of-Way Utilities	98,135.59
	7479	Balmoral to Teulon R.M. of Rockwood 15.3 km	Grade Widening 15.3 km Gravel 15.3 km	686,702.83
	7594	P.R. No. 229 - N. Jct. P.R. No. 231 L.G.D. of Armstrong 18.1 km	Preliminary Engineering Right-of-Way	65,955.32
	7604	P.T.H. No. 101 - North P.T.H. No. 67 R.M. of Rosser & Rockwood 19.0 km	Preliminary Engineering Right-of-Way	108,354.15
8	7443	Northbound on P.T.H. No. 8 at P.T.H. No. 101 R.M. of St. Andrews	Manufacture and Install Guide Signs	7,388.22
	7504	P.R. No. 515 - P.R. No. 229 R.M. of St. Andrews 30.8 km	Preliminary Engineering	342.55
	7505	North of P.R. No. 230 - P.R. No. 515 R.M. of St. Andrews 17.1 km	Preliminary Engineering	1,935.44
9	7568	P.T.H. No. 9 Various Locations	Traffic Marking Paint Testing	3,124.61
	7587	Rivergien Crescent - Cadillac Lane R.M. of West St. Paul	Install Traffic Lights & Illuminate Intersection Improvements	61,856.22
9A	7454	Along Manitoba Avenue Town of Selkirk 1.0 km	Preliminary Engineering	1,328.17

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
9A	7500	Vicinity of Proposed Selkirk General Hospital Town of Selkirk	Construct turning & passing lanes	$ 638.89
9 9A & 27	7499	Vicinity of Selkirk Town of Selkirk R.M. of St. Andrews 12.3 km	Bituminous Pavement 12.3 km	4,400.73
10	7450	North Boundary Riding Mountain National Park - South of P.T.H. No. 5 R.M. of Dauphin 6.6 km	Grade Widening Shoulder Gravel	15,992.75
	7472	P.T.H. No. 2 - P.R. No. 344 R.M. of Cornwallis, Oakland & City of Brandon 22.1 km	Preliminary Engineering	586.88
	7488	P.R. No. 271 - N. Limit Village of Cowan L.G.D. of Mountain 22.1 km	Seal Coat 22.1 km	166,689.89
	7502	U.S.A. Border - Boissevain R.M. of Morton 25.5 km	Grade 25.5 km Base Course 25.5 km	1,633,814.28
	7523	N. Jct. P.R. No. 268 - S. of P.R. No. 277 L.G.D. of Mountain 28.8 km	Preliminary Engineering Right-of-Way Utilities	1,406.48
	7524	N. Junction P.R. No. 268 - Bell River Porcupine Forest Reserve & L.G.D. of Mountain 20.3 km	Grade Widening 7.6 km Shoulder Gravel 7.6 km	117,336.11
	7525	South of Mafeking - Red Deer River L.G.D. of Mountain & Unorganized Territory 27.9 km	Preliminary Engineering Right-of-Way Utilities	57,714.21
	7540	P.R. No. 357 - South Boundary Riding Mountain National Park R.M. of Clanwilliam, Harrison, L.G.D. of Park & Village of Erickson 20.6 km	Base Course 2.1 km Bituminous Pavement 2.1 km	2,985.44

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
10	7553	North of North Junction P.R. No. 268 - Bell River L.G.D. of Mountain & Porcupine Forest Reserve 20.3 km	Base Course 20.3 km Bituminous Pavement 20.3 km	$1,754,927.61
	7554	Red Deer River - Overflowing River Unorganized Territory 35.9 km	Preliminary Engineering Right-of-Way Utilities	73,088.35
	7560	C.P.R. Overpass - Assiniboine River City of Brandon 0.8 km	Preliminary Engineering	13,244.26
11	7433	P.R. No. 214 - P.R. No. 313 R.M. of Lac du Bonnet 8.7 km	Grade Widening 4.5 km Bituminous Pavement 4.5 km	1,019,633.28
	7455	P.R. No. 506 - P.T.H. No. 44 R.M. of Whitemouth 15.8 km	Preliminary Engineering	16,315.07
	7456	P.R. No. 313 - McArthur Falls R.M. of Lac du Bonnet 14.0 km	Preliminary Engineering Right-of-Way Utilities	51,553.10
	7536	P.R. No. 313 - McArthur Falls R.M. of Lac du Bonnet L.G.D. of Alexander 13.2 km	Grade Widening 13.2 km Gravel 13.2 km	1,343,130.66
	7571	Elma Bridge R.M. of Whitemouth	Illumination	1,873.00
	7589	South of St. George L.G.D. of Alexander	Rock Berm	56,954.60
12	7509	Relocated P.T.H. No. 12 & Interchange at P.T.H. No.1 R.M. of Ste. Anne & Tache 3.6 km	Grading 1.3 km	90,753.39
	7510	Relocated P.T.H. No. 12 & C.N.R. Overpass - Seine River Diversion - North of P.R. No. 207 R.M. of Ste. Anne & Village of Ste. Anne 3.6 km	Grade 3.6 km Gravel 3.6 km	709.38

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
12	7511	P.R. No. 208 - P.R. No. 402 L.G.D. of Stuartburn & LaBroquerie 22.7 km	Bituminous Pavement 7.9 km Base Course Shoulder	$ 751,455.71
	7513	Relocation of Rue Langevin Village of Ste. Anne 1.2 km	Grade 1.2 km Gravel 1.2 km	2,270.07
	7564	P.R. No. 208 - Steinbach R.M. of Hanover & LaBroquerie 32.1 km	Bituminous Pavement	2,000.00
	7580	Seine River Diversion - North of P.T.H. No. 1 R.M. of Ste. Anne, Tache & Village of Ste. Anne 7.1 km	Concrete 7.1 km Bituminous Pavement 7.1 km	4,921,348.55
	7581	P.R. No. 317 R.M. of Brokenhead	Install Stop Sign Flashers	4,449.64
16	7492	P.T.H. No. 5 - P.T.H. No. 10 R.M. of Langford, Odanah Town of Neepawa 28.2 km	Preliminary Engineering	16,411.93
	7521	P.T.H. No. 1 - North Westerly R.M. of Portage la Prairie 14.2 km	Bituminous Pavement 14.2 km	2,840,784.98
	7546	East of P.T.H. No. 34 - Whitemud River R.M. of Westbourne 3.4 km	Preliminary Engineering Right-of-Way Utilities	38,162.73
	7549	P.T.H. No. 1 - P.T.H. No. 50 R.M. of Portage la Prairie & Westbourne 28.2 km	Grade Widening Shoulder Gravel	43,034.54
16 & 10	7493	Vicinity of Minnedosa R.M. of Minto	Highway Signing	25,204.82
16 & 607	7497	At Newdale Access R.M. of Harrison	Preliminary Engineering	1,463.87

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
19	7572	P.T.H. No. 5 - West R.M. of McCreary 4.9 km	Calcium Chloride 4.9 km	$ 9,711.64
20	7436	East of Cowan L.G.D. of Mountain 12.3 km	Base Course 2.6 km A.S.T. 2.6 km	98,038.62
21	7474	Assiniboine River - Hall's Bridge R.M. of Whitehead 1.3 km	Preliminary Engineering	7,161.19
23	7435	St. Malo Canal NE 33-4-4E. R.M. of DeSalaberry	Detour & Approaches	12,876.84
	7461	Shannon Creek N of NE 1/4 Sec. 32-4-1E. R.M. of Morris	Detour & Approaches	116,855.37
	7462	P.R. No. 431 - P.T.H. No. 34 R.M. of Lorne 19.2 km	Preliminary Engineering	22,219.84
	7559	Deerwood - P.R. No. 431 R.M. of Thompson & Lorne 14.5 km	Preliminary Engineering Right-of-Way	6,673.91
	7573	West of P.T.H. No. 5 R.M. of Argyle & Strathcona 4.1 km	Grade Improvements 2.5 km Base Course 2.5 km A.S.T. 2.5 km	50,793.87
26	7483	East of P.T.H. No. 1 - West Junction P.R. No. 248 R.M. of St. Francois Xavier 24.3 km	Preliminary Engineering	64,612.41
	7597	River Lots 213 - 217 Parish of Baie St. Paul R.M. of St. Francois Xavier	River Bank Stabilization	131,979.70
27	7535	P.T.H. No. 9 - P.T.H. No. 8 R.M. of St. Andrews 2.9 km	Preliminary Engineering Right-of-Way	8,968.96

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
30	7463	Buffalo Drain - NE 32-2-1W R.M. of Rhineland	Detour & Approaches	$ 98,859.62
41	7496	P.R. No. 545 - Assiniboine River R.M. of Ellice 4.9 km	Right-of-Way	99,190.57
	7552	Assiniboine River - P.R. No. 545 R.M. of Ellice 3.7 km	Calcium Chloride 3.7 km	6,107.89
41 & 42	7547	P.R. No. 568 - Assiniboine River R.M. of Ellice 9.9 km	Seal Coat 9.9 km	62,415.12
42	7548	Birtle Main Street Town of Birtle 1.0 km	Preliminary Engineering	17,397.36
44	7457	West Hawk Lake - P.R. No. 307 Whiteshell Provincial Park 31.2 km	Preliminary Engineering	35,463.06
	7507	East of P.T.H. No. 59 - East of P.R. No. 601 R.M. of St. Clements & Brokenhead 26.0 km	Preliminary Engineering	40,157.84
44 & 59	7592	R.M. of St. Clements	Highway Signing	7,573.31
49 & 83	7437	Saskatchewan Boundary - South of Kenville R.M. of Swan River 21.8 km	Grade Widening Shoulder Gravel	308.36
50	7447	South Boundary District 6 & 8 - North limit of Section 22-19-10W. L.G.D. of Alonsa 17.6 km	Base Course 17.6 km Bituminous Pavement 17.6 km	1,255,276.05

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
50	7465	P.T.H. No. 16 - Langruth R.M. of Westbourne & Lakeview 22.5 km	Preliminary Engineering Right-of-Way Utilities	$ 142,395.30
	7582	P.T.H. No. 5 - Railway Street R.M. of McCreary 1.0 km	Preliminary Engineering Right-of-Way Utilities	4,548.12
52	7459	Mitchell - P.T.H. No. 59 R.M. of Hanover 13.2 km	Preliminary Engineering	11,752.87
59	7495	Ile Des Chenes R.M. of Ritchot 1 km	Concrete 1.0 km Pavement for Additional Lanes	2,158.95
	7501	Vicinity of Libau R.M. of St. Clements 15.7 km	Grading	415,749.55
	7506	North of Libau - South of P.T.H. No. 12 R.M. of St. Clements Brokenhead Indian Reserve No. 4	Preliminary Engineering Right-of-Way Utilities	148,369.10
	7508	North of P.R. No. 317 - West Boundary Indian Reserve No. 4 R.M. of St. Clements 5.7 km	Grading 5.7 km	340,194.43
	7550	North of Greater Winnipeg Floodway & Birds Hill Park R.M. of Springfield & St. Clements	Bituminous Pavement	1,000.00
	7555	Birds Hill Park R.M. of East St. Paul	Purchase Swareflex Reflectors	7,360.63
	7609	South of P.R. No. 508 Brokenhead Indian Reserve R.M. of St. Clements 20.6 km	Bituminous Pavement 20.6 km	246,519.22
59 & 44	7452	R.M. of St. Andrews	Illumination	91,000.00

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
67	7481	P.T.H. No. 7 - South Junction P.R. No. 236 R.M. of Rockwood & Town of Stonewall 6.5 km	Preliminary Engineering Right-of-Way Utilities	$ 3,757.19
	7498	P.R. No. 230 - P.T.H. No. 9 St. Andrews 2.3 km	Bituminous Pavement	411.26
75	7449	South Boundary of City of Winnipeg - P.R. No. 429 R.M. of Ritchot 7.8 km	Grade 1.5 km Drainage	253,151.16
	7458	Additional Lanes - Morris - P.R. No. 305 R.M. of Morris & Ritchot 27.4 km	Preliminary Engineering	589.97
	7512	P.R. No. 429 - South of P.R. No. 305 R.M. of Ritchot 16.9 km	Preliminary Engineering Right-of-Way Utilities	1,743,385.71
	7541	South Boundary City of Winnipeg - P.R. No. 429 R.M. of Ritchot 7.8 km	Preliminary Engineering Right-of-Way Utilities	1,717,080.49
	7561	South Boundary City of Winnipeg - P.R. No. 429 R.M. of Ritchot 8.1 km	Base Concrete Pavement 8.1 km	291,255.07
	7574	P.R. No. 429 - South of Ste. Agathe R.M. of Ritchot 14.8 km	Grade 14.8 km Gravel 14.8 km	505,878.34
75	7585	P.T.H. No. 75 & Toronto Ave. Town of Morris	Install Pedestrian Corridor	9,494.59
83	7438	South of Kenville - 2nd Street South (Swan R.) R.M. of Swan River 18.7 km	Grade 7.4 km Gravel 7.4 km	280,280.78

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
83	7475	S. District Boundary - C.N. Tracks (Cromer Subdivision) R.M. of Pipestone 21.8 km	Grade Widening & Construction of Drainage	5,744.88CR.
	7476	South Boundary R.M. Miniota - P.T.H. No. 24 R.M. of Miniota 9.3 km	Preliminary Engineering	785.76
	7539	P.R. No. 594 - P.R. No. 363 R.M. of Shell River 8.7 km	Preliminary Engineering	12,484.43
	7596	U.S. Boundary - South Junction P.T.H. No. 3 - North District Boundary R.M. of Arthur & Albert 52.3 km	Preliminary Engineering	31,149.08
100	7534	St. Mary's to Portage Ave. City of Winnipeg R.M. of MacDonald 21.3 km	Concrete Median Barrier Bituminous Pavement 21.3 km	37,500.40
	7625	River Lot 152 St. Mary's Road City of Winnipeg	Demolition of Existing Buildings	1,818.63
100 & 3	7503	Vicinity of Oak Bluff City of Winnipeg R.M. of MacDonald 9.5 km	Bituminous Pavement 9.5 km	1,613,614.71
100, 9 & 101	7531	P.T.H. No. 100 at Wilkes; P.T.H. No. 101 at Main Sreet R.M. of West St. Paul City of Winnipeg	Bituminous Pavement	428,225.61
100 & 101	7603	P.T.H. No. 2 - South of Wilkes Ave., Saskatchewan Avenue - Portage Avenue City of Winnipeg R.M. of MacDonald 14.7 km	Bituminous Pavement 14.7 km	107,117.95

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
101	7558	P.T.H. No. 9 & 101 R.M. of West St. Paul	Relocate $ Replace Overhead Sign Support	24,496.53
	7590	South Bound P.T.H. No. 101 at P.T.H. No. 1W. City of Winnipeg	Highway Signing	18,654.28
Miscellaneous				
	7400	Various Highways	Right-of-Way	37,349.56
	7401	District 1	Engineering Expenses	8,869.71
	7402	District 2	Engineering Expenses	5,916.40
	7403	District 3	Engineering Expenses	4,266.99
	7404	District 4	Engineering Expenses	19,374.04
	7405	District 5	Engineering Expenses	17,620.11
	7406	District 6	Engineering Expenses	4,152.40
	7407	District 7	Engineering Expenses	650.09CR.
	7408	District 8	Engineering Expenses	15,193.53
	7409	District 9	Engineering Expenses	9,149.82
	7410	District 10	Engineering Expenses	4,976.70
	7411	District 11	Engineering Expenses	12,714.81
	7412	District 12	Engineering Expenses	23,553.47
	7413	Materials Division	Engineering Expenses	93,937.93
	7417	Various Highways	Expenses for Right-of-Way	890,032.95
	7418	Various Highways	Engineering Audit Survey	57,621.64
	7420	Various	Advertising Highway Projects	38,119.72

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	7421	District 1	Surplus Culverts	$ 13,160.08
	7422	District 2	Surplus Culverts	18,179.38
	7423	District 3	Surplus Culverts	781.86CR.
	7425	District 5	Surplus Culverts	5,490.80CR.
	7426	District 6	Surplus Culverts	549.51
	7427	District 7	Surplus Culverts	2,990.22
	7428	District 8	Surplus Culverts	11,958.63CR.
	7429	District 9	Surplus Culverts	8,895.09CR.
	7431	District 11	Surplus Culverts	12,550.72
	7432	District 12	Surplus Culverts	1,329.60CR.
	7482	New Red River Crossing R.M. of St. Andrews & St. Clements	Preliminary Engineering Right-of-Way	13,654.87
	7484	Various	Illumination	2,875.18
	7487	Various Training Centres	Training Expenses Construction Personnel	57,979.64
	7489	Various	Hazard Removal	41,243.67
	7490	Various	Installation of Rumble Strips	1,534.08
	7491	Various	Delineation	5,906.52
	7526		Proceeds of Contract Disbursement Act	5,160.29
	7543	Various	Design, Repair, Modify Overhead Sign Stuctures	88,431.35
	7551	Various	Install Automatic Railway Crossing Protection	14,538.70
	7567	P.R. No. 235 - P.R. No. 278 L.G.D. of Alonsa 14.4 km	Feasibility Study	41,323.25

Table No. C2

Highway No.	Work Order	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	7583	Various Locations R.M. of Russell	Signing, Illumination, Pavement Markings	$ 20,616.86
	7599	Various, Vicinity of Selkirk R.M. of St. Andrews, St. Clements & West St. Paul	Corridor Study	4,574.81
	7602	Wilkes Avenue Yard	Centralization of Aluminum Material	5,345.76
	7614	Computer Service	Roadway Design Use of Computers	18,750.00
	7617	P.R. No. 340 Southeasterly Broadlands Road L.G.D. of Alexander	Preliminary Engineering	33,317.08
	7621	Dauphin Yard	Electrical Requirements	2,800.00
		Various Work Orders - Incidental Amounts		463.74
		Bridge Projects (for details see Table No. B1)		2,594,160.81
			*683.4	$40,758,230.19

* Bituminous Pavement	267.3
Calcium Chloride	8.6
Base Course	111.3
Grading	135.3
Gravelling	103.7
Concrete Pavement	17.7
Asphalt Surface Treatment	7.5
Seal Coat	32.0
	683.4

HIGHWAY CONSTRUCTION
PROVINCIAL ROAD
APPROPRIATION 15-7A

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
200	6146	P.R. No. 201 - Emerson R.M. of Franklin & Town of Emerson 16.8 km	Base Course 2.5 km A.S.T. 2.5 km	$ 86,583.60
200 & 217	6134	Arnaud - P.T.H. No. 23 R.M. of Franklin & De Salaberry 15.6 km	Grade 15.6 km Gravel 15.6 km Calcium Chloride 15.6 km	195,583.52
201	6191	P.R. No. 242 - P.T.H. No. 31 R.M. of Pembina 22.6 km	Preliminary Engineering	31,278.45
	6283	P.R. No. 336 - Gnadenthal R.M. of Rhineland 9.7 km	2nd Lift Construction Gravel 9.7 km	1,202.98
	6311	Osterwick - P.R. No. 432 R.M. of Stanley 14.5 km	Preliminary Engineering	40,544.66
	6447	P.T.H. No. 75 - North Junction P.T.H. No. 30 R.M. of Montcalm & Rhineland 17.7 km	Grade Gravel	8,913.98
204	6292	P.R. No. 509 - Selkirk Bridge R.M. of St. Clements 2.5 km	Preliminary Engineering	21,360.42
204 & 101	6446	R.M. of East St. Paul	Traffic Signals Illumination	62,756.53
205	6189	West of P.T.H. No. 59 - P.R. No. 246 R.M. of De Salaberry & Morris 16.5 km	Preliminary Engineering Right-of-Way Utilities	65,625.39
	6453	P.R. No. 422 - P.R. No. 322 R.M. of Morris 12.9 km	Preliminary Engineering	40,252.63

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
205 & 246	6183	P.R. No. 205 - P.R. No. 305 R.M. of Morris & Ritchot 14.0 km	Preliminary Engineering Right-of-Way Utilities	$ 17,861.82
206	6188	West Junction P.R. No. 207 - P.T.H. No. 1 R.M. of Tache 5.0 km	Preliminary Engineering Right-of-Way Utilities	2,502.00
	6251	T.C.H. - P.T.H. No. 15 R.M. of Springfield & Tache 12.0 km	Base Course 12.0 km A.S.T. 12.0 km	713,660.09
209	6135	P.R. No. 201 - 1.0 miles West of P.T.H. No. 59 R.M. of Franklin & L.G.D. of Stuartburn 17.0 km	Grade 6.0 km Gravel 6.0 km	603,467.46
	6385	P.R. No. 201 - Gardenton L.G.D. of Stuartburn 8.0 km	Calcium Chloride 8.0 km	14,504.00
210	6148	Giroux - P.R. No. 207 R.M. of Ste. Anne 11.0 km	Base Course 11.0 km A.S.T. 11.0 km	473,716.81
	6178	P.T.H. No. 12 - P.R. No. 206 R.M. of Ste. Anne & Tache 12.0 km	Preliminary Engineering Right-of-Way Utilities	1,503.25
	6180	P.R. No. 206 South Junction - P.T.H. No. 59 R.M. of Tache & Ritchot 13.0 km	Grade Gravel	4,759.90
	6190	P.R. No. 206 - P.T.H. No. 59 R.M. of Tache & Ritchot 13.0 km	Base Course 13.0 km A.S.T. 13.0 km	885,087.99
	6270	In Woodridge L.G.D. of Piney	Relocated C.N.R. Signals	10,361.22
	6413	Sec. 34-8-4E. - Sec. 26-8-4E. R.M. of Tache 2.0 km	Abandonment Grant	3,900.00

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
211	6166	P.T.H. No. 11 - Pinawa R.M. of Lac du Bonnet L.G.D. of Pinawa 14.0 km	Preliminary Engineering	$ 3,610.99
	6167	Winnipeg River Bridge Approaches L.G.D. of Pinawa & R.M. of Lac du Bonnet	Rock Embankment	16,825.02
212	6169	P.T.H. No. 44 - P.T.H. No. 59 R.M. of St. Clements 8.4 km	Preliminary Engineering Right-of-Way Utilities	88,929.95
	6256	P.T.H. No. 44 - Cooks Creek R.M. of St. Clements & Springfield 8.1 km	Grade 8.1 km Preparation Base Course 8.1 km A.S.T. 8.1 km	499,484.91
	6257	P.T.H. No. 44 - P.T.H. No. 59 R.M. of St. Clements 8.4 km	Grade 8.4 km Gravel 8.4 km	530,077.67
212 & 213	6168	P.R. No. 206 - Cooks Creek R.M. of Springfield 8.1 km	Preliminary Engineering Right-of-Way Utilities	143,468.86
	6280	P.R. No. 206 - Cooks Creek R.M. of Springfield 8.1 km	Grade 8.1 km Gravel 8.1 km	701,590.61
213	6170	P.R. No. 212 - P.T.H. No. 12 R.M. of Springfield 9.9 km	Preliminary Engineering Right-of-Way Utilities	52,131.31
217	6185	P.R. No. 246 - P.R. No. 200 R.M. of De Salaberry, Franklin & Montcalm 11.5 km	Preliminary Engineering Right-of-Way Utilities	17,924.16

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
220	6467	P.T.H. No. 9 - P.R. No. 409 R.M. of West St. Paul 6.2 km	Preliminary Engineering Right-of-Way Utilities	$ 12,305.90
221	6212	P.R. No. 412 - P.R. No. 248 R.M. of Rosser 10.3 km	Preliminary Engineering Right-of-Way Utilities	5,919.89
222	6118	Arnes - Hnausa R.M. of Bifrost & Gimli 11.3 km	Stockpiling Traffic Gravel	46,525.37
	6325	Arnes - Hnausa R.M. of Bifrost & Gimli 11.3 km	Grade	80,158.37
224	6347	Fisher River Big Alec's Creek - Big George Creek	Bridge Detour Asphalt Decking	75,370.67
226	6259	P.T.H. No. 68 - P.R. No. 329 R.M. of Bifrost 9.9 km	Gravel 7.9 km	26,440.21
	6432	P.T.H. No. 68 - P.R. No. 329 R.M. of Bifrost 10.0 km	Base Course 10.0 km	608,213.73
227	6339	P.R. No. 248 - P.R. No. 430 R.M. of Woodlands 19.4 km	Calcium Chloride 19.4 km	36,105.37
227 & 248	6201	P.T.H. No. 6 - P.R. No. 248 East of P.T.H. No. 26 - P.R. No. 227 R.M. of St. Francois Xavier, Rosser & Woodlands 24.5 km	Base Course A.S.T.	142,353.08

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
228 & 223	6133	Various	Renumbering Routes	$ 2,297.55
229	6243	P.T.H. No. 9 - P.T.H. No. 8 R.M. of St. Andrews 3.3 km	Grade Gravel Calcium Chloride	15,016.50
231	6408	P.T.H. No. 7 - P.T.H. No. 17 L.G.D. of Armstrong 21.8 km	Calcium Chloride 21.8 km	9,343.23
233	6407	Park Gate - Gull Harbour Unorganized Territory Hecla Provincial Park 25.0 km	Calcium Chloride 25.0 km	42,800.33
233 & 234	6412	North of Riverton R.M. of Bifrost & Unorganized Territory 28.3 km	Bituminous Pavement 28.3 km	431,793.42
234	6298	P.R. No. 325 - Beaver Creek L.G.D. of Fisher Unorganized Territory 23.4 km	Preliminary Engineering Right-of-Way	40,700.61
	6390	South of P.R. No. 233 - P.R. No. 325 R.M. of Bifrost L.G.D. of Fisher 17.7 km	Right-of-Way	64,368.31
	6450	P.R. No. 325 - Beaver Creek L.G.D. of Fisher Unorganized Territory 23.3 km	Grade 23.3 km Gravel 23.3 km	1,501,146.16
	6486	Beaver Creek - Calder's Dock Unorganized Territory 25.8 km	Preliminary Engineering	1,081.40
235	6159	East of Lake Manitoba Narrows, R.M. of Siglunes 17.4 km	Crushed Rock Limestone Base Course	222,841.85

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
235	6358	Lonely Lake Drain Bridge L.G.D. of Alonsa 1.6 km	Grade Gravel	$ 3,360.30
	6457	P.R. No. 514 - Westerly R.M. of Eriksdale & Siglunes, Dog Creek Indian Reserve No. 46 16.1 km	Grade Widening	7,000.00
236	6338	P.T.H. No. 67 - P.R. No. 517 R.M. of Rockwood 12.9 km	Calcium Chloride 12.9 km	26,542.40
238	6234	South of P.T.H. No. 9 - Stevens Ave. Lockport R.M. of St. Andrews 9.7 km	Remedial Riverbank Stability Repairs	15,867.00
	6335	South of P.T.H. No. 9 - Stevens Ave. Lockport R.M. of St. Andrews 9.7 km	Calcium Chloride 9.7 km	23,234.00
239	6254	P.T.H. No. 6 - Steep Rock L.G.D. of Grahamdale 20.2 km	Calcium Chloride 20.2 km	46,480.58
240	6192	P.T.H. No. 3 - NE 1/4 Section 33-14-7W. R.M. of Pembina & Thompson 18.5 km	Grade Gravel	23,059.32
	6249	P.T.H. No. 1 - P.R. No. 331 R.M. of Portage la Prairie 2.6 km	Preliminary Engineering	37,016.33
	6252	P.T.H. No. 23 - P.R. No. 245 R.M. of Thompson & Dufferin 15.0 km	Preliminary Engineering Right-of-Way Utilities	1,221.01
	6415	North of NE 1/4 Section 13-11-7W. R.M. of Portage la Prairie	Bridge Replacement	4,253.97
	6437	P.T.H. No. 2 - NE Corner Section 28-9-2W. R.M. of Grey 12.9 km	Right-of-Way	65,107.00

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
241	6235	East Boundary R.M. Cartier - P.T.H. No. 1 R.M. of Cartier 8.1 km	Preliminary Engineering Right-of-Way Utilities	$ 374.97
242	6366	Somerset - E. Jct. P.R. No. 245 R.M. of Lorne 12.9 km	Grade Gravel	10,385.85
243	6451	P.T.H. No. 75 - P.T.H. No. 30 R.M. of Rhineland & Montcalm 22.2 km	Preliminary Engineering	55,956.87
245	6290	N. of NW 1/2 Sec. 24-6-5W. R.M. of Dufferin 0.8 km	Grade Surfacing Bridge Approaches River Diversion	3,055.60
	6336	W. Jct. P.R. No. 242 - NE Corner Section 31-6-10W. R.M. of Lorne & South Norfolk 7.9 km	Preliminary Engineering Right-of-Way Utilities	9,828.41
	6337	Bruxelles - Westerly R.M. of Lorne 9.7 km	2nd Lift Construction Gravel 9.7 km	18,058.03
246	6184	P.T.H. No. 23 - P.R. No. 217 R.M. of Montcalm 9.7 km	Preliminary Engineering	14,931.55
247	6296	La Salle - P.R. No. 330 Westerly, R.M. of Morris 1.0 km	Grade 1.0 km Gravel 1.0 km	74,709.60
248	6195	N.E. Corner 3-8-3W - P.T.H. No. 2 R.M. of Grey 11.3 km	Preliminary Engineering	24,397.23
248 & 606	6363	P.T.H. No. 1 Southerly Elie Access - Easterly R.M. of Cartier 1.3 km	Bituminous Pavement 1.3 km	94,717.31

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
250	6161	P.T.H. No. 24 - E. Jct. P.R. No. 355 R.M. of Blanshard & Saskatchewan 13.1 km	Grade Gravel	$ 11,302.11
	6204	P.R. No. 349 - East of P.T.H. No. 1 R.M. of Whitehead 11.5 km	Preliminary Engineering Right-of-Way	14,374.56
	6205	P.T.H. No. 1 Northerly R.M. of Whitehead & Daly 8.9 km	Preliminary Engineering Right-of-Way	12,439.76
	6255	P.T.H. No. 24 Northerly R.M. of Blanshard & Saskatchewan 13.6 km	Base Course 13.6 km Bituminous Pavement 13.6 km	1,153,450.81
	6267	P.T.H. No. 16 - P.T.H. No. 45 R.M. of Harrison 19.7 km	Preliminary Engineering	12,989.99
	6460	P.R. No. 349 - P.T.H. No. 2 R.M. of Whitehead & Glenwood 12.8 km	Preliminary Engineering	47,245.77
252	6206	P.R. No. 255 - P.T.H. No. 1 R.M. of Pipestone & Wallace 22.2 km	Preliminary Engineering	1,126.72
254	6208	Oak Lake North R.M. of Sifton 2.9 km	Preliminary Engineering Right-of-Way	17,785.97
	6261	P.R. No. 476 - P.R. No. 478 R.M. of Silver Creek 11.6 km	Preliminary Engineering	12,282.87
	6262	P.T.H. No. 83 - South of P.R. No. 478, R.M. of Shellmouth, Boulton, Russell & Silver Creek 10.7 km	Preliminary Engineering Right-of-Way Utilities	9,302.37
	6324	P.R. No. 347 - Grande Clairiere, R.M. of Cameron 4.9 km	Grade	14,141.81

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
255	6209	P.R. No. 254 - P.T.H. No. 83 R.M. of Sifton & Wallace 18.1 km	Preliminary Engineering	$ 7,771.36
256	6210	East Jct. P.T.H. No. 2 - South of Cromer R.M. of Pipestone 16.5 km	Preliminary Engineering	21,907.89
	6211	P.R. No. 257 - Cromer R.M. of Wallace & Pipestone 12.8 km	Bituminous Pavement	6,598.39
	6213	P.R. No. 467 - P.T.H. No. 41 R.M. of Archie 21.3 km	Right-of-Way	15,514.32
257	6435	C.P. Rail Crossing - Broadview Subdivision Town of Virden 200 metres	Railway Crossing Improvements	5,876.65
260	6130	NE Corner Section 33-16-12W. - South Jct. P.R. No. 261 R.M. of Westbourne & Glenella 18.1 km	Base Course 18.1 km A.S.T. 18.1 km	756,994.76
260 & 261	6237	S. Jct. P.R. No. 261 - - E. Boundary R.M. Glenella R.M. of Glenella 6.4 km	Preliminary Engineering Right-of-Way Utilities	20,932.86
261	6241	P.R. No. 260 - P.R. No. 462 R.M. of Glenella 10.8 km	2nd Lift Construction Gravel	37,762.29
	6300	Dist. 6 & 8 Boundary - East L.G.D. of Alonsa 9.9 km	Preliminary Engineering Right-of-Way Utilities	5,424.43
	6348	W. Boundary L.G.D. Alonsa - East, L.G.D. of Alonsa 10.2 km	Grade 10.2 km Gravel 10.2 km	794,980.45
262	6314	P.T.H. No. 10 - P.T.H. No. 16 & 16A R.M. of Odanah 18.1 km	Preliminary Engineering Right-of-Way Utilities	89,287.92

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
263	6370	P.R. No. 262 - P.T.H. No. 10 R.M. of Clanwilliam & L.G.D. of Park 20.2 km	Preliminary Engineering	$ 1,786.81
265	6240	1 Mile East of Langruth - 1 Mile West R.M. of Lakeview 3.3 km	Preliminary Engineering Right-of-Way Utilities	2,226.40
	6429	S. Jct. P.T.H. No. 5 - P.R. No. 562 R.M. of Rosedale 13.9 km	Gravel Seeding	9,264.62
266	6228	Birch River - South L.G.D. of Mountain 1.6 km	Preliminary Engineering	1,331.98
266 & 587	6334	SE. Corner 2-38-27W. - North of Bowsman River R.M. of Swan River & Minitonas 3.3 km	Grade 3.3 km Gravel 3.3 km	24,426.35
267	6160	Vic. of S. Jct. P.R. No. 274 R.M. of Gilbert Plains 2.3 km	Grade Gravel	42,991.71
	6301	P.T.H. No. 10 - N. Jct. P.R. No. 274 R.M. of Gilbert Plains 8.9 km	Preliminary Engineering Right-of-Way Utilities	61,240.01
	6387	N of NE 1/4 Sec. 20-27-22W. R.M. of Gilbert Plains 92 m	Bridge Construction	50,435.40
268	6122	P.T.H. No. 10 - P.R. No. 587 R.M. of Minitonas 14.5 km	Grade Gravel	7,026.99
	6123	P.T.H. No. 10 - East L.G.D. of Mountain 2.9 km	Grade Widening Bituminous Recap Shoulder Gravel	6,123.11

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
269	6302	P.R. No. 490 - P.R. No. 276 Unorganized Territory 10.3 km	Preliminary Engineering Right-of-Way Utilities	$ 49,029.77
	6308	P.R. No. 490 - P.R. No. 276 Unorganized Territory 10.3 km	Grade 10.3 km Gravel 10.3 km	792,711.49
	6377	S. Jct. P.T.H. No. 20 - P.R. No. 490 R.M. of Mossey River & Dauphin Unorganized 29.5 km	Preliminary Engineering	11,424.33
270	6266	P.R. No. 263 - P.R. No. 359 L.G.D. of Park 3.3 km	Right-of-Way	47,579.06
	6449	West of Onanole L.G.D. of Park 3.6 km	Grade 3.6 km Gravel 3.6 km	132,640.88
271	6229	P.T.H. No. 20 - West L.G.D. of Mountain 8.1 km	Preliminary Engineering Right-of-Way Utilities	1,124.84
272	6124	P.T.H. No. 20 - Village of Duck Bay L.G.D. of Mountain 21.6 km	Preliminary Engineering Right-of-Way Utilities	5,978.86
	6333	P.T.H. No. 20 - North Unorganized Territory 11.0 km	Grade 11.0 km Gravel 11.0 km	498,553.71
	6378	P.T.H. No. 20 - Duck Bay Swan River Unorganized	Calcium Chloride	16,690.45
273	6303	P.T.H. No. 10 - Ukraina R.M. of Ethelbert, Mossey River & Dauphin 7.6 km	Preliminary Engineering Right-of-Way Utilities	14,041.65
274	6151	North Junction P.R. No. 267 - South of P.T.H. No. 10 R.M. of Ethelbert 19.5 km	Grade Gravel	205,109.70

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
274	6152	South of South Junction P.R. No. 267 - East of Secs. 28 & 33-26-27W. R.M. of Gilbert Plains 2.5 km	Base Course A.S.T.	$ 12,801.14
	6422	East of Sec. 28-24-20W. R.M. of Dauphin	Drainage Improvements	25,853.96
275	6230	P.T.H. No. 10A - East Junction P.R. No. 588 R.M. of Swan River 13.2 km	Preliminary Engineering Right-of-Way Utilities	8,716.43
276	6155	P.R. No. 328 - South Dauphin Unorganized 12.6 km	Grade 2.5 km Gravel 2.5 km	96,891.81
	6156	South of Toutes Aides - Manipogo Provincial Park Entrance R.M. of Lawrence 7.4 km	Base Course 2.1 km A.S.T. 2.1 km	43,449.97
	6309	Manipogo Provincial Park Entrance - P.R. No. 269 R.M. of Lawrence & Dauphin Unorganized 15.5 km	Grade Widening 15.5 km Gravel 15.5 km	692,163.89
277	6125	P.T.H. No. 10 - West Unorganized Territory 12.9 km	Base Course 3.1 km A.S.T. 3.1 km	105,693.57
278	6153	NE Corner Sec. 33-23-12W. - N. limit Sec. 18-23-11W. L.G.D. of Alonsa 8.1 km	Base Course 4.5 km Bituminous Pavement 4.5 km	204,097.17
	6250	P.R. No. 235 - South L.G.D. of Alonsa 8.1 km	Seal Coat 8.1 km	34,701.26
	6310	North limit Sec. 18-23-11W. - North limit Twp. 22 L.G.D. of Alonsa 8.4 km	Base Course 8.4 km Bituminous Pavement 8.4 km	283,773.69

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
278	6459	South of N. Sec. 3-22-11W. - NE Cor. Sec. 33-22-11W. L.G.D. of Alonsa 8.7 km	Base Course 8.7 km Bituminous Pavement 8.7 km	$102,287.43
302	6163	South of Beausejour R.M. of Brokenhead 8.2 km	Base Course 3.3 km	253,132.80
	6171	P.T.H. No. 15 - North Boundary R.M. of Springfield 9.7 km	Preliminary Engineering Right-of-Way	2,082.51
	6179	La Broquerie - North limit Sec. 18-7-8E. R.M. of Ste. Anne & La Broquerie 5.2 km	Preliminary Engineering Right-of-Way Utilities	3,563.96
303	6181	1.0 miles East of P.T.H. No. 12 - 3.0 miles West of P.T.H. No. 12 R.M. of Hanover 6.5 km	Preliminary Engineering Right-of-Way Utilities	32,638.56
305	6187	P.T.H. No. 59 - Rat River Bridge R.M. of Hanover 11.0 km	Preliminary Engineering Right-of-Way Utilities	128,515.30
	6272	P.T.H. No. 2 - NE Cor. Sec. 14-9-8W. R.M. of South Norfolk 11.5 km	Preliminary Engineering Right-of-Way Utilities	3,812.35
	6313	West of P.T.H. No. 75 - NE Cor. Sec. 15-7-2E R.M. of Ritchot & MacDonald 2.5 km	Preliminary Engineering Right-of-Way Utilities	1,479.17
	6440	Assiniboine River - 10.2 km South R.M. of South Norfolk & Portage la Prairie 10.2 km	Seal Coat 10.2 km	57,162.49

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
305	6452	P.T.H. No. 3 - West Junction P.R. No. 248 R.M. of Dufferin & MacDonald 16.1 km	Preliminary Engineering	$ 10,881.09
306	6247	P.R. No. 213 - P.T.H. No. 44 R.M. of Springfield & Brokenhead 13.2 km	Preliminary Engineering Right-of-Way	26,402.97
308	6147	East of Sec. 19-2-15E. - Moose Lake Provincial Park L.G.D. of Piney & Northwest Angle Forest Reserve 16.9 km	Base Course 3.4 km A.S.T. 3.4 km	138,567.71
	6384	Moose Lake - East Braintree L.G.D. of Reynolds & Northwest Angle Forest Reserve 65.4 km	Calcium Chloride 65.4 km	28,594.61
311 & 318	6371	P.T.H. No. 59 - Niverville & P.R. No. 311 Southerly Village of Niverville R.M. of Hanover 5.5 km	Grade Base Course Bituminous Pavement	47,548.68
313	6414	P.R. No. 313 at Winnipeg River Bridge R.M. of Lac du Bonnet	Install Flashing Lights Illumination	2,000.66
313 & 502	6117	Village of Lac du Bonnet R.M. of Lac du Bonnet 5.5 km	Grade 2.6 km Bituminous Pavement 2.6 km	730,264.95
314	6372	South Junction P.R. No. 269 - P.R. No. 481 R.M. of Mossey River, Dauphin & Lawrence 19.4 km	Preliminary Engineering	1,101.74

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
315	6381	Bird River Booster Lake Access Road L.G.D. of Alexander & Unorganized Territory	Calcium Chloride	$ 4,735.02
317	6248	P.T.H. No. 59 - P.T.H. No. 12 R.M. of St. Clements & Brokenhead 15.5 km	Preliminary Engineering Right-of-Way Utilities	31,642.84
319	6382	P.T.H. No. 59 - Patricia Beach L.G.D. of Alexander 6.0 km	Calcium Chloride 6.0 km	8,463.54
320	6174	Clandeboye Turnoff - Netley Creek R.M. of St. Andrews 8.2 km	Preliminary Engineering	14,784.51
321	6319	P.R. No. 220 - P.T.H. No. 8 R.M. of West St. Paul 5.0 km	Base Course 1.5 km A.S.T. 1.5 km	37,134.64
322	6140	P.T.H. No. 6 - P.T.H. No. 67 R.M. of Rosser & Rockwood 7.0 km	Grade Gravel	61,354.23
	6352	P.T.H. No. 2 - North Limit of Starbuck R.M. of MacDonald 1.0 km	Excavate Base Course Bituminous Pavement	1,701.85
	6400	P.T.H. No. 6 - P.T.H. No. 67 R.M. of Rockwood & Rosser 7.0 km	Preliminary Engineering Right-of-Way Utilities	39,376.95
325	6149	Ashern Westerly R.M. of Siglunes 30.0 km	Stockpiling Traffic Gravel	16,809.55

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
325	6299	P.T.H. No. 6 - P.R. No. 235 R.M. of Siglunes 30.0	Grade Widening 30.0 km	$288,030.36
	6444	P.T.H. No. 6 - P.R. No. 325 R.M. of Siglunes 30.0 km	Preliminary Engineering Right-of-Way Utilities	149,011.35
328	6439	Waterhen River - P.T.H. No. 6 L.G.D. of Grahamdale & Unorganized Territory 62.9 km	Preliminary Engineering	76,435.59
329	6389	P.T.H. No. 8 - P.R. No. 326 R.M. of Bifrost 13.4 km	Preliminary Engineering Right-of-Way Utilities	86,471.77
	6399	P.R. No. 326 - P.R. No. 226 R.M. of Bifrost 6.6 km	Preliminary Engineering	4,752.56
332	6239	Dacatah - P.T.H. No. 1 R.M. of Cartier 1.6 km	Preliminary Engineering Right-of-Way Utilities	4,044.60
336	6196	East of NE 1/4 Sec. 6-6-2W. R.M. of Morris	Detour Bridge Approaches	1,856.08
338	6197	Thornhill Northerly R.M. of Stanley 2.5 km	Grade Gravel	36,170.99
	6295	North of P.R. No. 245 - East of Sec. 30-6-6W. R.M. of Dufferin 1.6 km	Grade Gravel	1,000.00
	6340	Shannon Creek - East of Sec. 20-3-6W. R.M. of Stanley	Bridge Approach Channel Realignment	5,288.40

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
340	6214	P.T.H. No. 1 - P.T.H. No. 2 R.M. of Elton, Cornwallis, South Cypress & Oakland 41.9 km	Preliminary Engineering	$ 6,137.85
342	6321	P.T.H. No. 23 - South R.M. of Lorne 4.9 km	Grade 4.9 km	64,167.65
	6473	P.R. No. 253 - South R.M. of Argyle & Louise 6.5 km	Grade	7,648.32
343	6419	Regent - West R.M. of Winchester 6.5 km	Right-of-Way	3,945.00
344	6150	NE Cor. Sec. 9-9-18W. - Richmond Avenue R.M. of Cornwallis 10.2 km	Grade Gravel	13,433.39
	6216	Wawanesa - North of P.R. No. 453 R.M. of Oakland & Cornwallis 29.3 km	Preliminary Engineering	1,804.04
	6322	NE Cor. Sec. 1-10-19W. - NE Cor. Sec. 9-9-18W. R.M. of Cornwallis 13.1 km	Abandonment Grant	24,300.00
	6403	18th Street - 1st Street City of Brandon 1.6 km	Grade Base Course Bituminous Pavement	241,516.31
346	6274	Ninga to P.T.H. No. 23 R.M. of Turtle Mountain & Riverside 8.1 km	Grade 8.1 km	159,651.28
349	6217	P.T.H. No. 10 - P.R. No. 250 R.M. of Cornwallis 21.0 km	Preliminary Engineering	8,017.57

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
350	6286	MacGregor - NE Cor. Sec. 32-10-10W. R.M. of North Norfolk 9.6 km	Preliminary Engineering	$ 24,592.76
352	6202	P.T.H. No. 16 - Arden R.M. of Lansdowne 8.1 km	Preliminary Engineering Right-of-Way Utilities	13,181.47
	6291	East of Sec. 24-12-13W. R.M. of Norfolk & North Cypress 1.6 km	Detour	6,493.40
353	6142	P.R. No. 468 - Easterly R.M. of Elton 6.6 km	Base Course A.S.T.	62,137.89
354	6219	P.T.H. No. 21 - Northerly R.M. of Daly & Whitehead 8.9 km	Preliminary Engineering Right-of-Way	54,617.25
	6269	Oak River Bridge E. of Sec. 9-14-22W. R.M. of Blanshard	Bridge Site Preparation	19,670.87
	6285	P.R. No. 355 - NE Cor. Sec. 35-15-22W. R.M. of Blanshard 10.0 km	Preliminary Engineering Right-of-Way Utilities	20,592.10
	6458	P.T.H. No. 21 Northerly R.M. of Daly	Bridge Approaches	21,630.10
354 & 355	6268	East of Cardale - South Junction P.R. No. 470 R.M. of Blanshard & Hamiota 18.1 km	Preliminary Engineering Right-of-Way Utilities	50,247.36
354 & 607	6281	U.V.D. Elphinstone R.M. of Strathclair 2.8 km	Preliminary Engineering	3,478.38

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
355	6326	P.R. No. 474 - P.T.H. No. 83 R.M. of Strathclair 2.8 km	Preliminary Engineering Right-of-Way Utilities	$ 4,321.28
	6396	West of Decker & North of Sec. 12-15-25W. R.M. of Miniota 1.6 km	Grade Gravel Right-of-Way	4,743.25
	6455	NE Sec. 36-14-19W. - P.R. No. 270 R.M. of Saskatchewan 7.8 km	Preliminary Engineering	16,596.08
357	6162	P.T.H. No. 10 - P.R. No. 562 R.M. of Rosedale & Clanwilliam 20.6 km	Grade 14.2 km Gravel 14.2 km	742,338.21
	6284	P.R. No. 562 - P.T.H. No. 10 R.M. of Rosedale & Clanwilliam 20.5 km	Preliminary Engineering Right-of-Way Utilities	27,440.43
359	6263	P.R. No. 354 - NE Sec. 8-19-22W. L.G.D. of Park Roblin/Russell Unorganized 16.5 km	Preliminary Engineering Right-of-Way Utilities	8,374.33
	6282	Vicinity of Wasmin Creek in Sec. 32-19-19W. L.G.D. of Park 2.5 km	Preliminary Engineering Right-of-Way Utilities	3,423.04
	6393	Vista - P.R. No. 566 R.M. of Rossburn 9.9 km	Grade Gravel	2,865.42
	6397	P.T.H. No. 45 - NE Cor. Sec. 8-19-22W. R.M. of Rossburn 16.5 km	Preliminary Engineering Right-of-Way	3,844.05
	6418	P.R. No. 566 - NE Cor. Sec. 8-19-22W. R.M. of Rossburn & L.G.D. of Park 6.5 km	Grade 6.5 km Gravel 6.5 km	1,155.06

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
364	6353	NE Cor. Sec. 27-30-18W. - Winnipegosis R.M. of Mossey River 4.9 km	Preliminary Engineering Right-of-Way Utilities	$ 26,238.12
	6318	At Winnipegosis - Mossey River Bridge Approaches R.M. of Mossey River 0.4 km	Right-of-Way Detour Approaches	27,329.43
366	6231	Woody River - P.R. No. 268 L.G.D. of Mountain 4.9 km	Preliminary Engineering Right-of-Way Utilities	17,337.07
	6305	P.R. No. 584 - East R.M. of Grandview & Boulton 23.2 km	Preliminary Engineering Right-of-Way Utilities	57,580.64
	6331	Vicinity of Wellman Lake Duck Mountain Provincial Park 7.3 km	Preliminary Engineering Utilities	21,551.22
	6341	North of NE. Sec. 11-24-24W. R.M. of Grandview 0.2 km	Detour Bridge Approaches	38,093.24
	6342	North of NW Sec. 9-24-25W. R.M. of Grandview 0.3 km	Detour Bridge Approaches	73,520.74
	6356	North of Valley River - NE Cor. Sec. 12-26-24W. R.M. of Grandview 5.7 km	Preliminary Engineering Right-of-Way Utilities	7,534.59
	6368	P.R. No. 267 - North District Boundary South P.R. No. 267 R.M. of Grandview & Duck Mountain Forest Reserve 14.8 km	Calcium Chloride 14.8 km	31,554.04
	6425	P.T.H. No. 5 - South R.M. of Grandview 11.3 km	Grade Gravel 2nd Lift	44,618.33
	6475	East of NE Sec. 18-30-25W. L.G.D. of Mountain 153 m	Construction Detour Approaches	8,658.11

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
366	6485	East of SE 1/4 Sec. 12-26-24W. R.M. of Grandview	Detour Bridge Approaches	$ 17,848.27
366 & 367	6379	Duck Mountain Forest Reserve	Calcium Chloride	130,850.86
367	6367	P.T.H. No. 10 - Boundary District 8 & 9 R.M. of Ethelbert & Duck Mountain Forest Reserve	Calcium Chloride 6.4 km	13,953.50
401	6442	P.R. No. 204 - P.R. No. 202 R.M. of West St. Paul 3.1 km	Preliminary Engineering Right-of-Way Utilities	17,457.41
401 & 204	6424	P.R. No. 204 - P.R. No. 202 - North of Winnipeg R.M. of East St. Paul 6.5 km	Bituminous Pavement 6.5 km	1,276,339.84
406	6175	P.T.H. No. 15 - P.T.H. No. 44 R.M. of Whitemouth 14.8 km	Preliminary Engineering Right-of-Way Utilities	11,907.53
408	6380	P.T.H. No. 11 - River Hills R.M. of Whitemouth 6.0 km	Calcium Chloride 6.0 km	11,253.05
411	6315	P.R. No. 430 - P.R. No. 414 R.M. of Woodlands & Portage la Prairie 11.6 km	Grade 1.4 km Gravel 1.4 km	3,585.09
413	6177	P.T.H. No. 9 - West Boundary of District R.M. of St. Andrews 9.9 km	Preliminary Engineering Right-of-Way Utilities	6,529.73

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
415	6242	P.T.H. No. 7 - P.R. No. 322 R.M. of Rockwood & Woodlands 19.7 km	Preliminary Engineering Right-of-Way Utilities	$ 1,981.65
	6430	P.T.H. No. 6 - North Junction P.R. No. 518 R.M. of St. Laurent 14.8 km	Right-of-Way Utilities	53,455.41
	6443	St. Laurent Easterly R.M. of St. Laurent 14.4 km	Grade 14.4 km	511,775.00
	6448	St. Laurent Easterly R.M. of St. Laurent 14.4 km	Stockpiling Traffic Gravel	125,784.50
416	6260	Vicinity of Inwood L.G.D. of Armstrong 4.1 km	Gravel	4,501.55
417	6120	Eriksdale Westerly R.M. of Eriksdale 24.5 km	Stockpiling Traffic Gravel	172,081.60
	6253	P.T.H. No. 6 - Dog Creek Indian Reserve R.M. of Eriksdale 24.5 km	Preliminary Engineering Right-of-Way Utilities	112,174.07
	6346	Eriksdale Westerly R.M. of Eriksdale 24.5 km	Grade	177,395.79
419	6454	P.T.H. No. 6 - Sandy Point R.M. of Coldwell 18.9 km	Preliminary Engineering Right-of-Way Utilities	25,079.51
	6471	P.T.H. No. 6 - Sandy Point R.M. of Coldwell 18.0 km	Grade 5.1 km Gravel 5.1 km	271,647.05
422	6198	P.T.H. No. 23 - P.R. No. 205 R.M. of Morris 11.6 km	Preliminary Engineering	3,539.62

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
424	6203	P.T.H. No. 2 - P.R. No. 241 R.M. of Cartier & MacDonald 10.3 km	Preliminary Engineering Right-of-Way Utilities	$ 54,858.62
428	6199	P.T.H. No. 14 - P.T.H. No. 23 R.M. of Roland & Stanley 19.4 km	Grade Gravel	18,510.81
430	6131	North Junction P.R. No. 227 - St. Ambroise Beach R.M. of Portage la Prairie 20.2 km	Grade 5.3 km Gravel 5.3 km	530,237.47
	6328	P.T.H. No. 1 - P.T.H. No. 26 R.M. of Portage la Prairie 10.7 km	Calcium Chloride 10.7 km	37,855.01
	6420	P.R. No. 227 North Junction - St. Ambroise Beach R.M. of Portage la Prairie 20.2 km	Calcium Chloride 20.2 km	31,669.07
	6428	P.R. No. 227 North Junction - St. Ambroise Beach R.M. of Portage la Prairie 20.2 km	Preliminary Engineering Right-of-Way Utilities	1,866.43
432	6200	Morden - P.T.H. No. 23 R.M. of Stanley & Thompson 19.4 km	Base Course A.S.T.	116,349.62
435	6246	P.T.H. No. 59 - P.T.H. No. 12 R.M. of St. Clements & Brokenhead 21.0 km	Preliminary Engineering Right-of-Way	46,013.50
	6288	P.T.H. No. 12 - P.R. No. 316 P.R. No. 214 - P.T.H. No. 11 R.M. of Brokenhead & Lac du Bonnet	Preliminary Engineering Right-of-Way	125,577.82
	6480	North of Sections 19 & 20-13-6E. R.M. of St. Clements 3.3 km	Abandonment Grant	6,000.00

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
440	6464	P.T.H. No. 23 - Pembina River Valley R.M. of Argyle	Preliminary Engineering Right-of-Way	$ 21,692.51
441	6220	P.T.H. No. 83 - P.T.H. No. 1 R.M. of Wallace 13.9 km	Right-of-Way	18,850.25
460	6236	Gladstone - P.R. No. 265 R.M. of Westbourne 18.5 km	Preliminary Engineering Right-of-Way Utilities	17,785.73
462	6438	3 Bridges N 16-18-13W, N 33-18-13W. & N 3-19-13W. R.M. of Glenella	Traffic Control Paving Grade	8,377.32
465	6264	P.T.H. No. 5 - P.R. No. 464 R.M. of Langford 8.2 km	Preliminary Engineering	5,383.25
467	6221	P.T.H. No. 83 - West Jct. P.R. No. 256 R.M. of Miniota & Archie 19.2 km	Preliminary Engineering Right-of-Way	10,809.26
468	6223	North of 11-11-18W. - West of 12-11-18W. R.M. of Elton 1.3 km	Grade Gravel	19,438.16
	6224	P.R. No. 561 - P.R. No. 353 R.M. of Elton 6.5 km	Preliminary Engineering	3,812.86
471	6265	P.T.H. No. 5 - NE Cor. 32-15-16W. R.M. of Rosedale 16.9 km	Preliminary Engineering Right-of-Way Utilities	6,884.88
	6456	P.R. No. 564 - P.R. No. 262 R.M. of Minto 6.6 km	Preliminary Engineering	3,279.56
474	6277	P.T.H. No. 24 - NE Sec. 31-14-25W. R.M. of Miniota 12.3 km	Preliminary Engineering Right-of-Way	67,795.43

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
474	6386	P.T.H. No. 24 - NE 31-14-25W. R.M. of Miniota 12.4 km	Grade 12.4 km Gravel 12.4 km	$513,091.61
	6402	Isabella Area R.M. of Miniota & Birtle 13.6 km	Preliminary Engineering Right-of-Way	3,974.48
	6463	E. of 32-13-25W in 8-14-25W. & E. 19-14-25W. R.M. of Miniota	Detour & Approaches	56,967.03
477	6401	North of Sec. 18-16-23W. R.M. of Shoal Lake 1.2 km	Preliminary Engineering Right-of-Way Grade Gravel	2,438.00
478	6421	P.T.H. No. 45 - P.R. No. 254 R.M. of Silver Creek 10.0 km	2nd Lift Construction Gravel	3,870.07
480	6165	SE 19-22-16W.- NE 5-23-16W. R.M. of Ochre River 6.8 km	Preliminary Engineering Right-of-Way Utilities	13,252.04
	6306	N Jct. P.T.H. No. 5 - Turtle River R.M. of Ochre River 8.1 km	Preliminary Engineering Right-of-Way Utilities	11,676.02
	6349	S. Jct. P.T.H. No. 5 - East R.M. of Ste. Rose 2.8 km	Grade 2.2 km Gravel 2.2 km	182,847.43
	6351	One Mile W of Laurier River NE 11-22-16W. R.M. of Ochre River	Replace Bridge with Culverts	3,245.27
	6354	P.T.H. No. 5 - Laurier R.M. of Ste. Rose 3.4 km	Preliminary Engineering Right-of-Way Utilities	1,449.40
	6360	Laurier - S. Henderson Creek R.M. of Ste. Rose & Ochre R. 9.7 km	Preliminary Engineering Right-of-Way Utilities	2,849.16

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
480	6392	S. Jct. P.T.H. No. 5 - East R.M. of Ste. Rose	Preliminary Engineering Right-of-Way Utilities	$ 9,663.08
	6427	N. of Henderson Creek Makinak R.M. of Ochre River 9.4 km	2nd Lift Construction Grade Gravel	30,956.23
481	6373	Toutes Aides - Crane River R.M. of Lawrence & Ste. Rose Unorganized 27.7 km	Preliminary Engineering	60,901.43
482	6395	P.T.H. No. 5 - N. of Shellmouth Dam R.M. of Shell River & Shellmouth 32.2 km	Seal Coat 24.8 km	154,103.22
485	6126	P.R. No. 366 - P.R. No. 486 R.M. of Swan River & Minitonas 16.5 km	Preliminary Engineering	6,056.18
486	6127	P.T.H. No. 83 - P.R. No. 485 R.M. of Swan River 4.9 km	Base Course 4.2 km A.S.T. 4.2 km	112,123.37
487	6128	P.T.H. No. 83 - P.R. No. 588 R.M. of Swan River 13.6 km	Grade Gravel Bridge Detours	8,808.76
488	6232	P.T.H. No. 10 - South R.M. of Swan River 2.1 km	Preliminary Engineering Right-of-Way Utilities	25,056.60
	6388	0.5 miles S. of P.R. No. 485 R.M. of Minitonas 152 m	Bridge Approaches Detour & Deck	12,546.21
489	6307	East of Garland - East of Garland River R.M. of Ethelbert 9.4 km	Preliminary Engineering Right-of-Way Utilities	29,001.12

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
489	6350	Garland - East of Garland R. R.M. of Ethelbert 9.4 km	Grade 7.5 km Gravel 7.5 km	$587,615.79
	6376	E. of Garland River - N. Boundary R.M. of Ethelbert 4.5 km	Preliminary Engineering	10,830.91
	6431	South District Boundary East of Sec. 13-32-21W. L.G.D. of Mountain 5.7 km	Preliminary Engineering	18,602.64
	6476	E. of NE 20-33-20W. L.G.D. of Mountain 153 m	Detour & Bridge Approaches	6,274.29
491	6258	P.R. No. 362 - West R.M. of Dauphin	Install Traffic Control Devices	3,683.94
	6375	North of Valley River P.R. No. 362 - Trembowla Historical Site R.M. of Dauphin 9.4 km	Preliminary Engineering	22,753.47
501	6138	P.T.H. No. 1 - P.T.H. No. 12 R.M. of Tache 9.9 km	Grade 1.8 km Gravel 1.8 km Calcium Chloride 9.9 km	176,666.57
	6182	Ste. Genevieve Access Road - Ross R.M. of Tache 7.9 km	Grade Gravel Calcium Chloride 7.9 km	52,030.95
	6416	P.T.H. No. 12 - P.T.H. No. 1 R.M. of Tache 9.9 km	Preliminary Engineering Right-of-Way Utilities	55,438.09
508	6164	P.T.H. No. 59 - St. Peters Road R.M. of St. Clements 3.9 km	Grade Gravel	36,997.69
	6275	P.T.H. No. 59 - West R.M. of St. Clements 3.7 km	Preliminary Engineering Right-of-Way Utilities	3,590.50

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
513	6145	Gypsumville - Easterly L.G.D. of Grahmdale 17.4 km	Stockpiling Traffic Gravel	$ 28,703.30
	6391	Gypsumville - Easterly L.G.D. of Grahamdale 17.4 km	Grading	67,959.73
514	6445	P.R. No. 235 - North R.M. of Siglunes 15.8 km	Preliminary Engineering	7,759.31
515	6273	P.T.H. No. 8 - P.T.H. No. 9 R.M. of St. Andrews 5.0 km	Bituminous Pavement 0.8 km	36,169.94
517	6238	P.R. No. 236 - P.T.H. No. 7 R.M. of Rockwood 4.9 km	Preliminary Engineering Right-of-Way Utilities	3,483.01
518	6316	P.T.H. No. 6 - North R.M. of Woodlands 12.6 km	Grade Gravel	3,550.70
568	6343	P.T.H. No. 83 - Birdtail River R.M. of Birtle 7.0 km	Preliminary Engineering Right-of-Way Utilities	15,320.27
571	6320	P.T.H. No. 41 - Saskatchewan Boundary R.M. of Ellice & Archie 6.6 km	Preliminary Engineering Right-of-Way Utilities	32,660.01
575	6244	P.R. No. 260 - Tenby R.M. of Westbourne, Glenella, Lansdowne 5.5 km	Preliminary Engineering Right-of-Way Utilities	14,604.24
577	6330	P.R. No. 566 - Rossman Lake R.M. of Rossburn 14.8 km	Preliminary Engineering Right-of-Way Utilities	21,624.12

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
577 & 566	6276	Vicinity of Rossman Lake R.M. of Rossburn 15.7 km	Grade Gravel	$ 8,842.21
582	6426	P.R. No. 480 - West R.M. of Ochre River 7.6 km	Grade Gravel 2nd Lift Construction	26,385.17
583	6362	P.T.H. No. 83 - Shell River Bridge R.M. of Shell River 2.1 km	Preliminary Engineering Right-of-Way Utilities	4,219.59
584	6404	P.R. No. 591 - North Limit Sec. 7-27-27W. R.M. of Shell River 5.4 km	Preliminary Engineering	8,865.31
586	6129	P.T.H. No. 83 - P.R. No. 486 R.M. of Swan River 1.6 km	Grade Gravel	525.55CR.
588	6233	P.T.H. No. 83 - North R.M. of Swan River 3.7 km	Preliminary Engineering Right-of-Way Utilities	4,307.33
	6332	North of P.T.H. No. 83 - South of P.R. No. 487 R.M. of Swan River 5.4 km	Preliminary Engineering	14,423.12
591	6374	P.R. No. 584 - P.T.H. No. 5 R.M. of Shell River & Hillsburg 3.9 km	Preliminary Engineering	10,682.03
594	6434	Sec. 4-29-28W. L.G.D. of Park 153 m	Bridge Approaches Detour & Deck	7,021.25
601	6287	Grand Beach Access R.M. of St. Clements 2.1 km	Grade 2.1 km	147,645.29

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
601	6293	Whitemouth Access R.M. of Whitemouth 0.8 km	Drainage Shoulder Improvements	$ 38,996.26
602	6383	Lorette Access - Seine River Bridge - P.R. No. 405 R.M. of Tache 0.4 km	Preliminary Engineering Right-of-Way Utilities	1,044.74
603	6294	Morden Access R.M. of Stanley 2.0 km	Preliminary Engineering	15,814.80
603 & 240	6119	P.R. No. 603 - Haywood P.R. No. 603 & 240 - St. Claude First Street St. Claude R.M. of Grey 4.7 km	Bituminous Pavement 4.7 km Gravel Shoulders 4.7 km	376,186.37
604	6405	Pilot Mound Access Road Village of Pilot Mound 0.5 km	Grade 0.5 km Bituminous Pavement 0.5 km	150,491.35
	6436	Pilot Mound Access (Railway Street) Village of Pilot Mound 0.5 km	Bituminous Pavement 0.5 km	45,756.14
605	6226	Town of Oak Lake 1.0 km	Bituminous Pavment 1.0 km	39,220.61
	6227	King Street Town of Virden 1.2 km	Base Course Curb & Gutter Bituminous Pavement	125,415.20
606	6132	Austin Access Road R.M. of North Norfolk 1.0 km	Bituminous Pavement	164,412.76

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
607	6278	Harrowby Access R.M. of Russell 3.1 km	Preliminary Engineering, Right-of-Way Utilities	$ 88,501.54
	6279	Russell Access P.T.H. No. 83 - P.T.H. No. 16 R.M. of Russell 2.1 km	Preliminary Engineering	15,827.53
	6329	Harrowby Access R.M. of Russell 1.6 km	Calcium Chloride 1.6 km	3,578.17
	6398	Russell Access - Heather to Assiniboine Town of Russell 0.5 km	Paving 0.5 km	288,974.64
607 & 16	6433	Harrowby Access R.M. of Russell 3.1 km	Grade 2.0 km Gravel 2.0 km	68,711.92
608	6154	Kinosota Access Road L.G.D. of Alonsa 4.4 km	Grade Gravel	23,933.73
	6369	Shellmouth Access P.R. No. 482 - East of SW Corner Section 32-22-29W. R.M. of Shellmouth 4.4 km	Calcium Chloride 4.4 km	8,450.28
Miscellaneous				
	6100	Various Highways	Right-of-Way	43,969.40
	6101	District 1	Engineering Expenses	12,986.47
	6102	District 2	Engineering Expenses	3,685.27
	6103	District 3	Engineering Expenses	1,155.52
	6104	District 4	Engineering Expenses	14,231.43
	6105	District 5	Engineering Expenses	17,253.07
	6106	District 6	Engineering Expenses	8,501.18

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	6107	District 7	Engineering Expenses	2,369.04
	6108	District 8	Engineering Expenses	18,946.86
	6109	District 9	Engineering Expenses	8,219.79
	6110	District 10	Engineering Expenses	19,108.10
	6111	District 11	Engineering Expenses	16,552.35
	6112	District 12	Engineering Expenses	10,218.48
	6115	Various Highways	Engineering Audit Survey	52,696.06
	6116	District 17	Completion of Right-of-Way Purchase	5,190.00
	6327	Various Locations	Install Automatic Rail Crossing Protection	25,215.69
	6423	Various R.M. of Gimli L.G.D. of Armstrong	Spreading Traffic Gravel	1,842.10CR.
	6487	P.T.H. No. 50 - West Boundary Sandy Bay Indian Reserve L.G.D. of Alonsa 0.7 km	Right-of-Way	3,303.75
	6488	Dog Creek Indian Reserve P.R. No. 417 - Dog Creek School Dog Creek Indian Reserve No. 46 12.3 km	Preliminary Engineering	2,824.14
		Various Work Orders Incidental Amounts		1,826.51
		Bridge Projects (for details see Table No. B1)		2,019,653.18
			*1 075.	30,765,296.76

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
		*Bituminous Pavement	81.9	
		Calcium Chloride	285.9	
		Base Course	127.5	
		Grading	247.9	
		Gravelling	209.2	
		Concrete Pavement	.5	
		Asphalt Surface Treatment	79.0	
		Seal Coat	43.1	
			1 075.0	

HIGHWAY CONSTRUCTION
NORTHERN ROADS
APPROPRIATION 15-7A

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
6	N375	South of Minago River - Hargraves River Unorganized Territory 38.7 km	Preliminary Engineering	$ 26,777.83
	N417	South of Minago River - Hargraves River Unorganized Territory 50 km	Clearing Drainage	91,236.08
10	N298	Vicinity of Schist Lake Unorganized Territory 14.5 km	Base Course (14.5)	5,130.96
	N409	C.N.R. Crossing-Mistik Creek Unorganized Territory 7.9 km	Grade Rock Embankment (7.9)	435,592.05
	N410	Mistik Creek - East Bakers Narrows Unorganized Territory 8.2 km	Grade Rock Embankment (8.2)	2,235,279.04
	N411	Cranberry Portage - C.N.R. Crossing Unorganized Territory 6.9 km	Grade Widening (6.9) Base Course (6.9)	185,167.21
	N414	First Ave. - Churchill Ave. City of Flin Flon 0.5 km	Curb & Gutter Bituminous Pavement	32,298.17
	N425	North Ave. Flin Flon - Northerly Unorganized Territory	Right-of-Way	600.00
10A	N430	P.T.H. No. 10 - Green St. City of Flin Flon 0.7 km	Preliminary Engineering	4,016.08
282	N413	P.T.H. No. 10 - P.R. No. 283 L.G.D. of Consol 23.8 km	Grade Gravel	56,351.80

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
283	N303	P.R. No. 282 - Saskatchewan Boundary L.G.D. of Consol 18.2 km	Preliminary Engineering Right-of-Way Utilities	$ 53.00
	N368	West of The Pas L.G.D. of Consol	Stockpiling Gravel	1,102.16CR
	N372	P.R. No. 282 - Saskatchewan Boundary, L.G.D. of Consol 18.2 km	Grade Widening	210,097.30
287	N316	The Pas Airport - Atikameg Clearwater Provincial Park 6.9 km	Drainage Sub-Grade Improvements	114,079.32
289	N312	Grace Lake Road Town of The Pas 2.4 km	A.S.T. (2.4) Calcium Chloride	2,672.40
291	N420	P.T.H. No. 10-P.T.H. No. 10A Unorganized Territory & City of Flin Flon 4.5 km	Preliminary Engineering	9,757.50
304	N300	Wanipigow Easterly Unorganized Territory 16.1 km	Preliminary Engineering	26,014.63
	N384	Black River - Sandy River Unorganized Territory 13.8 km	Grade Gravel	47,170.99
	N395	O'Hanley River - Black River Unorganized Territory 9.7 km	Crushed Rock Base Course (1.3) A.S.T. (1.3)	309,725.71
	N402	Manigotogan - Wanipigow Access Road Unorganized Territory 19.8 km	Clearing	65,696.03
	N404	Sandy River - Manigotogan R. Unorganized Territory 15.9 km	Grade (15.9) Gravel (15.9)	2,130,556.63
	N405	P.T.H. No. 12 - Corner Section 16-17-9E. L.G.D. of Alexander 20.9 km	Preliminary Engineering Right-of-Way Utilities	45,060.92

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
304	N418	Black River - Wallace Lake Unorganized Territory	Calcium Chloride	$ 6,493.66
	N426	Black River - Sandy River Unorganized Territory 13.8 km	Crushed Rock Base Course (13.8)	1,384,242.89
391	N328	Pipe Lake Mine Road - S. Soab Lake Mine Road L.G.D. of Mystery Lake 36.2 km	Rock Grade Widening Drainage Bituminous Levelling	201,444.83
	N359	Wabowden - South Soab Mine Road Unorganized Territory 36.3 km	Drainage Bituminous Levelling	32,641.62
	N373	P.R. No. 392 - East of Wekusko Jct. Unorganized Territory 20.3 km	Grade Widening (3.7) Base Course (3.7) Gravel (3.7)	428,188.95
	N390	P.T.H. No. 6 - Wabowden Unorganized Territory 46.6 km	Preliminary Engineering	12,000.49
	N391	Thompson Airport - Turnbull Lake Road L.G.D. of Mystery Lake, Unorganized Territory & Town of Leaf Rapids 199.2 km	Grade Gravel Drainage Improvements	193,412.20
	N401	Mitishto River Unorganized Territory	Bridge Detour Approaches	7,899.91
	N406	Turnbull Lake - Lynn Lake Town of Leaf Rapids, Unorganized Territory L.G.D. of Lynn Lake 106.6 km	Bituminous Levelling Base Course	459,955.69
	N407	Wekusko - Wabowden, Vic. of Reed Lk. - P.R. No. 392 Unorganized Territory 134.4 km	Bituminous Levelling Shoulder Gravel	721,027.89
	N422	Suwanee River - Turnbull Lk. Town of Leaf Rapids & Unorganized Territory 37.1 km	Preliminary Engineering	62,131.46

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
392	N291	P.R. No. 391 - Town of Snow Lake L.G.D. of Snow Lake 33.0 km	Bituminous Repair	22,243.67
	N408	P.R. No. 391 - Snow Lake L.G.D. of Snow Lake 33.0 km	Bituminous Repairs	19,727.38
394	N213	Lynn Lake-Vandekerckhove Lk. L.G.D. of Lynn Lake 49.6 km	Drainage Grade Improvements	$ 21,078.54
395	N340	P.R. No. 392 - Chisel Lake Mine L.G.D. of Snow Lake 13.0 km	Gravel (1.8) Calcium Chloride (1.8)	34,950.55
396	N415	P.R. No. 397 - Fox Lake Mine L.G.D. of Lynn Lake Unorganized Territory 45.1 km	Bituminous Levelling	46,045.98
610	N421	P.R. No. 391 - Wabowden Unorganized Territory 3.5 km	Shoulder Improvements Drainage	46,052.72
South Bay Road	N319	Ruttan Lake Mine - South Bay Unorganized Territory 54.4 km	Drainage Grade Repairs Gravel	123,611.91
Jenpeg-Norway House Road	N349	Jenpeg - Sea Falls Unorganized Territory 47.5 km	Drainage Grade Widening Gravel	28,736.91
Moose Lake Access	N350	Atikameg - Moose Lake Unorganized Territory 45.1 km	Grade Repairs Gravel	3,748.53

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Thompson		Split Lake - Stephens Lake	Grade	$777,414.74
Gillam	N360	Unorganized Territory	Gravel	
Road		67.6 km		
	N361	Stephens Lake - Long Spruce	Grade	561,541.98
		Unorganized Territory	Gravel	
		59.5 km		
	N399	Split Lake - Stephens Lake	Stockpiling	25,748.88
		Unorganized Territory	Traffic Gravel	
Split	N383	Various Roads	Grade	145,502.01
Lake		Unorganized Territory	Drainage	
Road		18.2 km	Gravel	
Easter-	N371	P.R. No. 327 - Westerly	Grade (12.5)	623,703.60
ville		Unorganized Territory	A.S.T. (12.5)	
Extension		36.2 km		
Road				
	N412	km 49.9 - km 72.4	Grade Widening	1,536,294.14
		Unorganized Territory	(22.5)	
		22.5 km	A.S.T. (22.5)	
	N429	17.7 km East of P.T.H.	Preliminary	39,730.87
		No. 10 to km 35.8	Engineering	
		Unorganized Territory		
		18.1 km		
Umpher-	N416	P.T.H. No. 10 - Umpherville	Gravel (2.3)	11,969.45
ville		L.G.D. of Consol	Calcium Chloride	
Road		2.3 km	(2.3)	
Miscellaneous				
	N394	Sea River Falls -	Preliminary	23,084.25
		Norway House	Engineering	
		Unorganized Territory		
		35.2 km		
	N403	P.R. No. 304 - Wanipigow	Grade	19,505.61
		Unorganized Territory	Gravel	
		Hollow Water I.R. No. 10		
		10.5 km		
	N419	Various Provincial Roads	Calcium Chloride	144,038.57
		L.G.D. of Mystery Lake &		
		Lynn Lake, Town of Leaf Rapids		
		296.1 km		

Table No. C4

Highway No.	Work Order	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	N423	Various Winter Roads Unorganized Territory	Preliminary Engineering	$ 32,364.65
		Bridge Projects (for details see Table No. B1)		23,714.07
			*184.3	13,852,480.09

* Nature of Work completed in km

Grading	77.6
Gravelling	23.7
Base Course	40.2
Calcium Chloride	4.1
Asphalt Surface Treatment	38.7
	184.3

WINTER TRUCK ROADS
CONSTRUCTION AND MAINTENANCE
APPROPRIATION 17-7D-1A & 15-7D-1B

Work Order No.	Location	Project Kilometres	Description of Work	Expenditure
CWT 904	Vicinity of Split Lake - York Landing - Ilford	32	Construction & Maintenance	$ 55,759.04
908	South Bay - South Indian Lake	13	Construction & Maintenance	44,465.37
954	Hole River - Red Sucker Lake	831	Construction & Maintenance	9,105.05
955	Hole River - Red Sucker Lake	831	Construction & Maintenance	1,501,933.57
956	Vicinity of Split Lake - York Landing - Ilford	32	Construction & Maintenance	46,378.27
957	Cross Lake - Oxford House	92	Construction & Maintenance	125,895.93
958	Cross Lake - Oxford House	50	Construction & Maintenance	97,508.05
959	Oxford House - Gods Lake Narrows	36	Construction & Maintenance	60,798.65
960	East Channel - Nelson River Cross Lake - Oxford House	64	Construction & Maintenance	122,642.61

Table No. C6

Work Order No.	Location	Project Kilometres	Description of Work	Expenditure
CWT 961	Oxford House - Gods Lake Narrows	6	Construction & Maintenance	$ 16,235.49
962	Oxford House - Gods Lake Narrows	49	Construction & Maintenance	89,452.23
				$2,170,174.26

Appropriation Summary

15-7D-1A	100,224.41
15-7D-1B	2,069,949.85
	$2,170,174.26

Manitoba

Highways and
Transportation

MAINTENANCE SECTION

TABLES M1, THROUGH M9

Table No. M1

MAINTENANCE CONTINGENCIES
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-7B

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
1	654	Bituminous Repairs, East Bound Lanes, (P.R. No. 308 - East District Boundary), L.G.D. of Reynolds							$ 10,685.18
	662	Bituminous Repairs, Elkhorn - Kirkella, R.M. of Wallace	12.9						5,901.73
	727	Landscaping Right-of-Way, Various Locations, R.M. of Whitehead	2.5						9,592.65
1,44, 301 & 307	706	Hand Brushing, Various Locations, Whiteshell Provincial Park							11,662.24
2	657	Bituminous Repairs, P.T.H. No. 18 - P.T.H. No. 10, R.M. of South Cypress & Oakland	25.8						82,899.62

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
5	665	Bituminous Repairs, North Jct. P.R. No. 265 - North District Boundary, R.M. of Rosedale	28.2						$ 14,529.12
	674	Bituminous Repairs, P.T.H. No. 23 - North Jct. P.R. No. 253, R.M. of Argyle	12.9						41,330.75
5A	679	Reconstruction of CNR Crossings, Town of Dauphin and Togo Subdivision, R.M. of Dauphin							11,681.54
9	678	Bituminous Repairs, Vicinity of Miray Creek - South of P.T.H. No. 44, R.M. of St. Andrews							33,954.48
10	693	Asphalt Repairs, Vicinity of Brandon - South Jct. P.T.H. No. 2 & P.T.H. No. 10, R.M. of Oakland & Cornwallis	24.2						18,903.53

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
15	690	Bituminous Repairs, Contour - Elma, R.M. of Whitemouth							$ 5,416.59
21	700	Bituminous Repairs, North Jct. P.T.H. No. 3 - P.T.H. No. 23, R.M. of Winchester & Cameron	21.4						24,979.76
31	694	Bituminous Repairs, P.T.H. No. 3 - U.S. Border, R.M. of Pembina	22.9						29,635.77
42	676	Asphalt Repairs, P.R. No. 568 - P.R. No. 254							5,340.93
44	689	Bituminous Repairs, South Jct. P.T.H. No. 11 - Rennie, L.G.D. of Reynolds							9,059.07
45	668	Asphalt Repairs, P.T.H. No. 21 - P.R. No. 254, R.M. of Shoal Lake & Rossburn							5,008.06
	670	Asphalt Repairs, P.T.H. No. 16 - P.R. No. 478, R.M. of Russell & Silver Creek	8.1						4,966.27

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
50	658	Drainage Improvements, Vicinity of Alonsa, L.G.D. of Alonsa	0.8						$ 1,679.88
67	684	Sealcoating, P.R. No. 230 - P.T.H. No. 8, R.M. of St. Andrews	2.5				2.5 (Seal Coat)		17,736.44
83	669	Asphalt Repairs, South Jct. P.T.H. No. 42 Southerly, R.M. of Birtle	9.7						12,238.87
The Pas Weigh Scale	650	Upgrade Weigh Scale Components							11,752.15
Bird's Hill Weigh Scale	651	Upgrade Weigh Scale Components							11,343.72
West Hawk Lake Scale	661	Improvements to Parking Area, Whiteshell Provincial Park							7,218.23
	672	Bituminous Repairs to Weigh Scale Approaches, Whiteshell Provincial Park							6,393.98

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Swan River Weigh Scale	686	Relocation of Scale House, Winnipeg Area							$ 12,468.55
	695	Purchase of Semi-Portable Senstek Axle Scale							11,200.09
							*2.5		$417,579.20

*Seal Coat

Table No. M2

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-7B

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
1	541	Sealcoating, Vicinity of Chater Access, R.M. of Cornwallis and Elton	1.6				1.6 (Seal Coat)		$ 10,925.55
	542	Asphalt Repairs, Vicinity of Carberry - East Jct. P.R. No. 351, R.M. of North Cypress	16.1						34,011.08
	550	Asphalt Repairs, East Bound Lanes, Vicinity of P.T.H. No. 11 - P.R. No. 308, L.G.D. of Reynolds	22.1						14,094.73
	582	Concrete Repairs, West Jct. P.T.H. No. 26 - P.T.H. No. 16, R.M. of Portage la Prairie	32.2						27,462.19
	586	Asphalt Repairs, P.T.H. No. 16 - Vicinity of P.R. No. 350, R.M. of Portage la Prairie & North Norfolk	83.7						116,794.10

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
1	589	Sealcoating, P.T.H. No. 16 - Vicinity of P.R. No. 350, R.M. of Portage la Prairie & North Norfolk	38.7				38.7 (Seal Coat)		$141,446.54
	627	Asphalt Repairs, P.T.H. No. 34 - P.R. No. 351, R.M. of North Norfolk	13.7						59,265.91
	628	Bituminous Repairs, Northwest Loop, Interchange P.T.H. No. 1 & P.T.H. No. 101, City of Winnipeg	0.4						17,466.51
1A & 10	643	Bituminous Repairs, City of Brandon							17,988.40
2	593	Repairs to Gravel Shoulders, East Junction of P.R. No. 334, Elm Creek	45.1						26,713.54
	642	Asphalt Repairs, Jct. P.R. No. 348 - Jct. P.R. No. 254	46.7						6,315.78
2 & 13	641	Construction of Senstek Scale Foundation, R.M. of Grey							3,432.89

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
3	591	Shoulder Restoration, Sanford - South Westerly, R.M. of MacDonald	8.1						$ 16,056.37
	625	Asphalt Repairs, Carman Southerly, R.M. of Dufferin, Roland & Stanley	33.8						49,913.27
3 & 346	613	Sealcoating, P.T.H. No 18 - P.T.H. No. 10 & Ninga Access, R.M. of Turtle Mountain & Morton	32.2				32.2 (Seal Coat)		176,344.62
5	644	Bituminous Repairs, East Jct. P.R. No. 353 - North District Boundary, R.M. of North Cypress	9.7						11,318.19
6	509	Bituminous Repairs, Vicinity of Minago River, Unorganized Territory							32,624.20
	519	Sealcoating, Mile 30 - 53 North of Grand Rapids, Electoral Division of The Pas	37.1				37.1 (Seal Coat)		246,482.20

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
7	581	Bituminous Repairs, P.R. No. 517 - P.R. No. 229, R.M. of Rockwood	29.0						$ 49,974.28
8	556	Bituminous Repairs, P.R. No. 230 - P.R. No. 229, R.M. of St. Andrews	46.7						60,579.89
10	501	Sealcoating, Vicinity of P.R. No. 282 - Overflowing River, Unorganized Territory	53.1				53.1 (Seal Coat)		294,745.48
	502	Shoulder Restoration, Cranberry Portage - Flin Flon, Unorganized Territory							6,753.91
	503	Bituminous Repairs, Various Locations, Cranberry Portage - Flin Flon, Unorganized Territory							30,313.77
	513	Sealcoating, S. Jct. P.T.H. Nos. 5 & 10 - North Boundary Riding Mountain National Park, R.M. of Dauphin	6.6				6.6 (Seal Coat)		41,737.09

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
10	621	Drainage Improvements, South Jct. P.T.H. No. 10A East - Tamarac Creek, R.M. of Swan River	2.5						$ 16,130.97
12	547	Asphalt Repairs, Steinbach - P.R. No. 208, R.M. of Hanover & La Broquerie	31.6						71,460.89
	558	Sealcoating, P.T.H. No. 15 - P.T.H. No. 44, R.M. of Brokenhead & Springfield	21.1				21.1 (Seal Coat)		128,383.34
13	583	Bituminous Repairs, P.T.H. No. 1 Southerly, R.M. of Portage la Prairie	14.5						29,791.88
	599	Asphalt Repairs, Elm Creek Northerly, R.M. of Grey	16.1						33,119.52
16	580	Bituminous Repairs, P.R. No. 227 - P.T.H. No. 50, R.M. of Portage la Prairie & Westbourne	14.0						27,349.09

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
16	602	Drainage Repairs, Vicinity of Assiniboine River Valley, R.M. of Russell							$ 9,974.68
	605	Install Heating Cable in South Ditch, Vicinity of Foxwarren, R.M. of Birtle							4,612.24
	611	Bituminous Repairs, Various Locations, Various Municipalities							34,724.49
17	572	Bituminous Repairs, P.T.H. No. 68 - Inwood, L.G.D. of Armstrong & Fisher	51.0						24,538.55
	577	Bituminous Repairs, P.R. No. 329 - P.R. No. 325, L.G.D. of Fisher	24.7						21,362.02
	588	Bituminous Repairs, Teulon - Inwood, R.M. of Rockwood	21.0						15,305.61
20	639	Bituminous Repairs, P.R. No. 272 Westerly, L.G.D. of Mountain	24.3						15,079.22

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
21	529	Sealcoating, P.T.H. No. 1 - North District Boundary, R.M. of Woodworth,	40.3				40.3 (Seal Coat)		$218,513.73
	618	Sealcoating, U.S. Border - South Jct. P.T.H. No. 3, R.M. of Winchester	22.4				22.4 (Seal Coat)		116,133.26
23	598	Sealcoating, Various Locations, R.M. of Lorne & Thompson	40.3				40.3 (Seal Coat)		284,529.08
24	601	Sealcoating, P.T.H. No. 21 - P.R. No. 254, R.M. of Miniota & Hamiota	12.9				12.9 (Seal Coat)		10,211.37
26	587	Bituminous Repairs, East Jct. P.T.H. No. 1 - West Jct. P.T.H. No. 1, R.M. of Portage la Prairie & St. Francois Xavier	64.4						20,670.63
32	600	Shoulder Restoration, P.R. No. 201 Northerly, R.M. of Stanley	4.9						22,062.85

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
34	526	Sealcoating, P.T.H. No. 2 Northerly, R.M. of Victoria	24.2				24.2 (Seal Coat)		$140,481.87
	578	Sealcoating, P.T.H. No. 1 - South District Boundary, R.M. of North Norfolk	18.1				18.1 (Seal Coat)		107,088.79
44	561	Bituminous Repairs, P.R. No. 301 - P.R. No. 307, Whiteshell Provincial Park							44,383.16
45	608	Bituminous Repairs, Vicinity of P.T.H. No. 10, R.M. of Harrison							5,141.11
50	514	Sealcoating, Vicinity of P.T.H. No. 5 Easterly, R.M. of McCreary, L.G.D. of Alonsa	14.8				14.8 (Seal Coat)		73,459.33
52	545	Bituminous Repairs, Vicinity of Steinbach - P.T.H. No. 59, R.M. of Hanover	16.1						20,804.93

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
52	546	Asphalt Repairs, Steinbach - La Broquerie, R.M. of La Broquerie	9.9						$ 13,043.93
59	624	Asphalt Repairs, P.T.H. No. 101 - P.T.H. No. 44							22,764.60
75 & 29	521	Maintenance of the Roadside Park & Landscaped Areas, P.T.H. Nos. 75 & 29, Vicinity of Emerson							15,401.04
100	532	Concrete Repairs, Various Locations, City of Winnipeg & R.M. of MacDonald							93,044.23
	535	Concrete Repairs, Southbound Lanes, P.R. No. 427 - P.T.H. No. 3	8.2						72,264.91
	534	Grade Repairs, Vicinity of Portage Avenue, City of Winnipeg							13,802.45
	537	Asphalt Shoulder Repairs, Various Locations, Various Municipalities							65,541.91

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
100 & 101	623	Asphalt Repairs, Various Locations, City of Winnipeg & Various Municipalities							$108,864.33
101	531	Drainage Improvements, P.T.H. No. 1W - P.R. No. 425, City of Winnipeg							9,334.74
	536	Asphalt Repairs, P.T.H. No. 1W - P.R. No. 425, City of Winnipeg							82,234.17
Warren Yards, Poplar Point Yard	634	Install Two Asphalt Storage Tanks, R.M. of Woodlands & Portage la Prairie							29,693.85
Various	505	Mechanical Brushing, Various Highways, Unorganized Territory							29,595.34
	538	Bituminous Repairs, Various Highways, Various Municipalities							137,338.89
	610	Sealcoating, Various Access Roads, R.M. of Harrison & Strathclair	5.4				5.4 (Seal Coat)		21,700.12

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Various	619	Spot Sealcoating, Various Highways, Various Municipalities	10.5				10.5 (Seal Coat)		$108,581.83
	637	Hand Brushing, Various Highways, Various Municipalities							7,948.50
							*378.7		$3,819,427.94

* Seal Coat

Table No. 144

MAINTENANCE CONTINGENCIES
PROVINCIAL ROADS
APPROPRIATION 15-7B

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
200	681	Bituminous Repairs, P.R. No. 311 - St. Adolphe, R.M. of Ritchot	6.5						$ 7,808.18
201	666	Grade Repairs, Vicinity of P.R. No. 209 - Vita, L.G.D. of Stuartburn	0.5						13,074.96
224	655	Bituminous Repairs, Jct. P.R. No. 325 - Snake Creek Bridge, Peguis Indian Reserve	22.1						33,766.84
	677	Sealcoating, Vicinity of Dallas - Fisher Bay, E.D. of St. Georges	23.1				23.1 (Seal Coat)		116,975.99
235	664	Bridge Approach Guide Rail Repairs, Lake Manitoba Narrows Bridge, R.M. of Siglunes	0.2						11,238.34

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
244	673	Sealcoating, P.T.H. No. 3 - P.T.H. No. 23, R.M. of Pembina & Lorne	16.1				16.1 (Seal Coat)		$ 19,511.48
	688	Bituminous Repairs, P.T.H. No. 3 - P.T.H. No. 23	16.1						15,334.99
250	699	Bituminous Repairs, Rivers - P.T.H. No. 24, R.M. of Blanshard & Daly							3,541.25
254 & 259	660	Bituminous Repairs, North Jct. P.R. No. 259 - South Jct. P.R. No. 259, North Jct. P.R. No. 254 - P.T.H. No. 21 R.M. of Woodworth	22.6						23,969.59
256	659	Grade Repairs, P.T.H. No. 2 - Cromer, R.M. of Pipestone	12.9						33,737.41
259	729	Installation of Guard Rail, Assiniboine Valley, R.M. of Woodworth	0.5						14,317.23

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
262	685	Bituminous Repairs, P.T.H. No. 10 - P.T.H. No. 16, R.M. of Odanah							$ 16,629.91
266	708	Culvert Installation, Vicinity of Bowsman, R.M. of Minitonas							9,104.42
269	675	Asphalt Repairs, Vicinity of Ethelbert, R.M. of Ethelbert	8.6						14,174.68
276	671	Subgrade Repairs, Vicinity of Ste. Rose du Lac, R.M. of Ste. Rose							2,648.53
313	691	Embankment Stabilization, Vicinity of P.R. No. 315, Unorganized Territory							9,334.67
314, 315 & 316	713	Culvert Repairs, Various Locations, R.M. of Lac du Bonnet & Unorganized Territory							3,733.00

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
359	680	Gravelling & Installation of Highway Signs, P.T.H. No. 16 - P.T.H. No. 45, Various Municipalities	43.2		43.2				$ 32,439.45
466	710	Gravelling & Right-of-Way Improvements, P.R. No. 471 - P.R. No. 265	6.5		6.5				1,219.63
542	692	Hand Brushing & Sign Repairs, P.R. No. 257 - P.T.H. No. 1, R.M. of Wallace	21.3						14,963.38
Teulon Yard	663	Asphalt Storage Tank Improvements, R.M. of Rockwood							2,760.00
Wawanesa Yard	683	Well Drilling, Village of Wawanesa							2,188.35
Elie & Warren Yards	687	Construction of 2 Sodium Chloride Storage Bins, R.M. of Cartier & Woodlands							10,532.72

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Whitemouth Yard	696	Construction of Calcium Chloride Storage Shed, R.M. of Whitemouth							$ 16,828.59
Dauphin Yard	697	Construction of Sodium Chloride Storage Bin, R.M. of Dauphin							10,799.00
New McGregor Farm Yard	698	Preliminary Surface Preparation, R.M. of East St. Paul							14,866.40
	704	New Maintenance Yard Site Preparation, Erection of Security Fence, Construction of Buildings, etc., R.M. of East St. Paul							117,780.81
Swan River Yard	701	Landscaping Improvements, Town of Swan River							2,640.11
Crystal City Yard	703	Building Construction & Erection of Security Fence, Village of Crystal City							17,861.39

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of: Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Portage & McGregor Yard	705	Installation of Fuel Dispensers, R.M. of Portage la Prairie & North Norfolk							$ 14,374.05
Altona Yard	707	Installation of Asphalt Storage Tank, R.M. of Rhineland							9,458.76
Pipestone Yard	712	Building Energy Conservation Improvements, R.M. of Pipestone							1,349.51
Petersfield Yard	714	Building & Yard Improvements, R.M. of St. Andrews							7,968.02
Bog Yard	715	Erection of Security Fence, Unorganized Territory							8,750.30
Carman & Treherne Yards	716	Installation of Asphalt Storage Tanks, R.M. of Dufferin & South Norfolk							14,528.23

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
Birtle Yard	717	Construction of Sodium Chloride Storage Bin, R.M. of Birtle							$ 4,544.35
Rorketon Yard	718	Workshop Improvements, R.M. of Lawrence							2,074.84
Roblin Yard	719	Building Improvements, R.M. of Shell River							1,540.07
Cowan Yard	720	Snow Plow Storage Shed Improvements, L.G.D. of Mountain							5,486.32
Boissevain Yard	721	Building Energy Conservation Improvements							7,157.21
Riverton Yard	724	Building Heating Improvements, R.M. of Bifrost							1,015.00
Gimli & Oakpoint Yards	725	Construction of Sodium Chloride Storage Bins, R.M. of Gimli & St. Laurent							3,313.63

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Poplarfield Yard	726	Building Heating Improvements, L.G.D. of Fisher							$ 674.00
Whitemouth Yard	728	Electrical Improvements, Snow Plow Shed, R.M. of Whitemouth							1,950.00
Churchill		General Maintenance,	4.2						3,122.08
	730	Bernier St. - Churchill Airport, L.G.D. of Churchill							
Gillam Road Yard	731	Erection of Security Fence, Unorganized Territory							5,280.94
Various Yards	652	Asphalt Storage Tank Improvements, Various Locations, R.M. of Pipestone, Wallace & Daly							3,826.60
	709	Building Energy Conservation Improvements, Various Locations							30,596.70

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
Various	653	Mobilization of Concrete Repair Crews							$ 47,366.78
	656	Mobilization of Two Seal Coat Crews							6,158.10
	667	Repair Deflection Equipment							5,709.00
	682	Chemical Brush Control, Various Locations of Abandoned Railroad Right-of-Ways, Various Municipalities							586.00
	702	Maintenance Management Metric Conversion Program							5,242.51
		Bridge Projects (for Details see Table No. B1)							15,001.84
					49.6		*39.1		$800,856.14

* Seal Coat

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL ROADS
APPROPRIATION 15-7B

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of: Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
201	544	Bituminous Repairs, P.T.H. No. 59 - P.T.H. No. 75, R.M. of Franklin & Montcalm	36.4						$ 11,533.18
	553	Sealcoating, P.T.H. No. 89 - P.R. No. 402, L.G.D. of Piney	21.6				21.6 (Seal Coat)		115,594.59
	595	Sealcoating, Altona - P.R. No. 336, R.M. of Rhineland	6.8				6.8 (Seal Coat)		43,072.34
206	552	Sealcoating, P.T.H. No. 52 - P.R. No. 311, R.M. of Hanover	8.2				8.2 (Seal Coat)		51,251.63
	559	Sealcoating, P.R. No. 213 - P.T.H. No. 44, R.M. of Springfield & St. Clements	11.3				11.3 (Seal Coat)		55,799.76

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
207	554	Sealcoating, Ste. Anne - East Jct. P.T.H. No. 1, R.M. of Ste. Anne	7.3				7.3 (Seal Coat)		$ 47,702.41
215 & Beausejour Access	557	Sealcoating, P.T.H. No. 12 - Beausejour & Beausejour Access, R.M. of Brokenhead & Town of Beausejour	9.7				9.7 (Seal Coat)		75,386.91
224	567	Drainage Improvements, P.R. No. 325 - Fisher Bay, Unorganized Territory, Peguis Indian Reserve & Fisher River Indian Reserve							6,206.04
	575	Bituminous Repairs, P.R. No. 325 - Fisher Bay, Unorganized Territory, Peguis Indian Reserve & Fisher River Indian Reserve	45.1						74,073.48
229	569	Bituminous Repairs, P.T.H. No. 8 - P.T.H. No. 17, Various Municipalities	32.5						20,005.77

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
233	571	Gravelling, Hecla Island Provincial Park and Unorganized Territory	29.0		29.0				$ 18,371.10
	576	Drainage Repairs, Washow Bay Drain Westerly, R.M. of Bifrost							6,311.76
233 & 234	570	Bituminous Repairs, Riverton - Hecla Island Provincial Park Gate, R.M. of Bifrost, Hecla Island Provincial Park and Unorganized Territory	29.5						37,225.12
235	539	Bituminous Repairs, P.T.H. No. 5 - Lake Manitoba Narrows, R.M. of Ste. Rose, L.G.D. of Alonsa	68.9						44,847.63
	540	Sealcoating, Vicinity of P.R. No. 278 Easterly, L.G.D. of Alonsa	24.5				24.5 (Seal Coat)		155,897.38
236	631	Bituminous Repairs, P.T.H. No. 6 - P.T.H. No. 67, R.M. of Rosser & Rockwood							36,181.57

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
241 & 248	584	Bituminous Repairs, P.T.H. No. 1 - P.T.H. No. 26, North Jct. P.R. No. 248 - St. Eustache, R.M. of Cartier	14.5						$ 30,775.53
248	585	Bituminous Repairs, P.T.H. No. 26 - P.R. No. 221, R.M. of St. Francois Xavier	5.4						21,065.22
248 & Rosetown Access	592	Sealcoating, P.R. No. 243 - P.T.H. No. 14 & Rosetown Access, R.M. of Rhineland	18.7				18.7 (Seal Coat)		109,996.21
250	525	Sealcoating, P.T.H. No. 2 - P.R. No. 349, R.M. of Glenwood, Whitehead & Town of Souris	12.9				12.9 (Seal Coat)		79,396.46
251	616	Bituminous Repairs, P.T.H. No. 21 - P.T.H. No. 83, R.M. of Brenda & Arthur	37.9						43,849.03

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
257 & 467	543	Gravelling, Various Locations, R.M. of Wallace & Archie	75.7		75.7				$ 8,622.75
259	646	Asphalt Repairs, P.R. No. 250 - P.R. No. 354, R.M. of Daly	11.6						8,486.85
261	579	Sealcoating, P.R. No. 462 - West District Boundary & Village of Glenella	16.1				16.1 (Seal Coat)		80,923.41
	607	Sealcoating, P.T.H. No. 5 - East District Boundary, R.M. of Rosedale	4.9				4.9 (Seal Coat)		21,972.76
274	515	Bituminous Repairs, P.T.H. No. 5 Southerly, R.M. of Gilbert Plains	12.1						19,993.64
275	645	Bituminous Repairs, P.T.H. No. 10A - Saskatchewan Boundary, R.M. of Swan River	23.4						6,727.65

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
276	516	Bituminous Repairs, Vicinity of P.T.H. No. 5 - P.R. No. 480, R.M. of Ste. Rose & Lawrence	12.9						$ 19,709.45
301	562	Sealcoating, P.T.H. No. 1E. - P.T.H. No. 44, Whiteshell Provincial Park	11.6				11.6 (Seal Coat)		15,547.72
304	563	Bituminous Repairs, P.T.H. No. 11 - O'Hanley River, E.D. of Rupertsland							34,476.01
305	594	Gravelling, Brunkild - P.T.H. No. 13, R.M. of MacDonald & Morris	30.6		30.6				14,962.88
307	565	Bituminous Repairs, Various Locations, P.T.H. No. 1 - P.T.H. No. 44, Whiteshell Provincial Park							27,693.76
311	551	Sealcoating, Vicinity of P.T.H. No. 12 - P.R. No. 206, R.M. of Hanover	8.2				8.2 (Seal Coat)		74,062.50

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
317	564	Bituminous Repairs, P.T.H. No. 11 - P.R. No. 316, R.M. of Lac Du Bonnet							$ 13,861.08
321	635	Culvert Replacement, Vicinity of P.T.H. No. 7, R.M. of Rockwood							5,576.92
330	597	Bituminous Repairs, P.T.H. No. 100 - Domain, R.M. of MacDonald	19.4						22,302.33
340	522	Grade Repairs & Gravelling, Vicinity of Stockton, R.M. of South Cypress	4.9		4.9				7,096.26
	523	Grade Repairs & Gravelling, Shilo Southerly, R.M. of South Cypress	12.9		12.9				24,008.52
345 & Lauder Access	617	Sealcoating, P.T.H. No. 21 - East Jct. P.R. No. 254 & Lauder Access, R.M. of Cameron	13.9				13.9 (Seal Coat)		76,352.42

Table No. 145

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
350, 352 & 461	633	Mechanical Brushing, Various Locations, R.M. of North Norfolk							$ 6,559.47
353	524	Grade Repairs & Gravelling, Wellwood Easterly, R.M. of North Cypress	5.7		5.7				15,531.35
354	638	Gravelling, P.T.H. No. 16 - P.T.H. No. 45, R.M. of Strathclair	19.4		19.4				5,883.11
357	612	Sealcoating, P.T.H. No. 5 - P.R. No. 562, R.M. of Rosedale	14.5				14.5 (Seal Coat)		104,309.00
366	512	Sealcoating, P.T.H. No. 83 - West Jct. P.R. No. 478, R.M. of Shellmouth & Boulton	6.2				6.2 (Seal Coat)		33,406.96

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of: Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
391	507	Bituminous Levelling, Lynn Lake Southerly & Town of Leaf Rapids, L.G.D. of Lynn Lake & Unorganized Territory	104.6						$ 24,802.46
	511	Bituminous Levelling, Mitishto River - Thompson Airport, L.G.D. of Mystery Lake & Unorganized Territory							56,640.86
394	508	General Maintenance, Vanderkerckhove - Co-op Point, Unorganized Territory	49.9						7,500.00
451	527	Grade Repairs & Gravelling, P.R. No. 340 Easterly, R.M. of South Cypress	3.3		3.3				4,762.67
466	606	Bituminous Repairs, P.T.H. No. 16 - Franklin, Various Municipalities							16,146.14
478 & 603 Binscarth Access		Sealcoating, P.T.H. No. 16 - Saskatchewan Boundary, R.M. of Russell	19.0				19.0 (Seal Coat)		110,470.53

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
501 & St. Genevieve Access	555	Sealcoating, P.T.H. No. 12 - St. Genevieve Access, R.M. of Tache	9.9				9.9 (Seal Coat)		$ 49,762.12
528	596	Sealcoating, P.T.H. No. 3 - Kaleida, R.M. of Pembina	7.3				7.3 (Seal Coat)		47,965.33
564	640	Grade Repairs & Gravelling, P.R. No. 262 Easterly, R.M. of Minto	4.9		4.9				17,855.96
Russell Access	604	Bituminous Repairs, R.M. of Russell	1.5						15,428.19
Bellsite Access	622	Sealcoating, L.G.D. of Mountain	2.8				2.8 (Seal Coat)		15,931.16
Herb Lake Landing Access	504	Grade Repairs & Gravelling, Various Locations, P.R. No. 392 - Herb Lake Landing, Unorganized Territory	5.4		5.4				8,344.92

Highway	Work Order No.	Nature & Location of Project	Project metres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
610	506	Bituminous Levelling, Various Locations, P.T.H. No. 10 - Manfor, L.G.D. of Consol	4.9						$ 10,625.40
Broad Valley Access	574	Bituminous Repairs, L.G.D. of Fisher	4.5						4,541.70
Lynn Lake Yard	510	Erection of Security Fence, L.G.D. of Lynn Lake							2,631.96
Grand Rapids Yard	517	Repairs to Salt Storage Shed, E.D. of The Pas							4,289.16
Gypsumville Yard	518	Repairs to Salt Storage Shed, L.G.D. of Grahamdale							4,765.13
Elkhorn & Rivers Yards	530	Construction of Salt Storage Bins, R.M. of Wallace & Daly							11,352.65

Table No. M5

Highway No.	Work Order	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
Cloutier Drive & Miller Road Yards	535	Landscaping & Installation of Fuel Dispensers, City of Winnipeg, R.M. of West St. Paul							$ 33,862.02
Hadashville Yard	548	Erection of Security Fence and Parking Lot Improvements, L.G.D. of Reynolds							9,845.89
Vita, Lorette, & Morris Yards	549	Installation of Asphalt Storage Tanks, L.G.D. of Stuartburn, R.M. of Morris & Tache							33,630.48
Manigotogan Yard	566	Construction of a Salt Storage Bin, E.D. of Rupertsland							10,090.19
Poplarfield Yard	573	Erection of Security Fence, L.G.D. of Fisher							6,721.21
Birtle & Russell Yards	612	Construction of a Salt Storage Bin, R.M. of Birtle & Russell							16,400.05

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of: Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Grandview & Rorketon Yards	626	Construction of Asphalt Storage Tanks, R.M. of Lawrence & Grandview							$ 14,239.26
Stein-bach Yard	630	Building Improvements, R.M. of Hanover							19,872.39
Pipe-stone Yard	648	Construction of a Salt Storage Bin, R.M. of Pipestone							5,876.00
Various	500	Summer Maintenance on Various Manfor Roads, Unorganized Territory	161.3						48,153.49
	590	Gravelling, Various Locations, Various Municipalities	70.9		70.9				17,413.99
	609	Gravelling, Various Locations, R.M. of Saskatchewan & Harrison							18,163.46
	615	Summer Maintenance of the International Peace Garden Road, International Peace Garden							7,890.98

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Various	620	Mechanical Brushing, Various Locations, R.M. of Saskatchewan & Harrison							$ 46,639.80
	647	Mechanical Brushing, Various Locations, Elkhorn Area, R.M. of Daly, Woodworth & Archie							1,694.48
					262.0		*234.7		$2,436,919.95

* Seal Coat

Table No. M7

MAINTENANCE EXPENDITURES
PROVINCIAL TRUNK HIGHWAYS AND PROVINCIAL ROADS
APPROPRIATION 15-7B

	Provincial Trunk Highways	Provincial Roads	Total
Summer Maintenance	$ 6,466,226.72	$13,435,122.12	$19,901,348.84
Winter Maintenance	3,469,382.31	4,604,940.47	8,074,322.78
Bridge	439,801.36	113,521.90	553,323.26
Special Projects	3,819,427.94	2,436,919.95	6,256,347.89
Contingencies	417,579.20	800,856.14	1,218,435.34
Sub Total	14,612,417.53	21,391,360.58	36,003,778.11
Overheads			6,507,259.14
Vacation and Sick Leave			2,128,188.92
Traffic Control			3,178,783.77
Maintenance Management			215,140.99
Ferries			35,000.00
Administrative Overheads			(39,047.51)
Maintenance Materials Holding Account			1,599.77
Total			$48,030,703.19

Table No. M8

MAINTENANCE
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-78

Highway	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
1	465.4	$ 832,758.23	$ 457,305.04	$1,290,063.27	$2,772
1A	30.7	79,552.28	71,300.85	150,853.13	4,914
2	314.9	271,800.54	75,434.79	347,235.33	1,103
3	396.7	381,736.19	85,675.17	467,411.36	1,178
3A	11.3	4,100.29	2,234.43	6,334.72	561
5	402.0	303,778.24	161,067.44	464,845.68	1,156
6	588.4	330,191.91	370,437.08	700,628.99	1,191
7	104.6	83,791.17	38,699.57	122,490.74	1,171
8	117.2	186,022.49	39,344.62	225,367.11	1,923
9	84.5	129,036.27	79,539.51	208,575.78	2,468
9A	7.7	12,286.73	33,839.60	46,126.33	5,990
10	726.3	541,909.77	621,948.35	1,163,858.12	1,602
10A	12.1	22,072.97	17,544.33	39,617.30	3,274
11	146.8	100,895.31	50,244.36	151,139.67	1,030
12	259.3	250,595.63	136,939.95	387,535.58	1,495
13	50.4	38,295.31	15,188.89	53,484.20	1,061
14	50.4	58,272.32	14,946.15	73,218.47	1,453
15	76.3	75,785.06	36,675.58	112,460.64	1,474
16	260.7	225,266.38	55,204.61	280,470.99	1,076
16A	9.0	7,626.08	9,180.39	16,806.47	1,867
17	107.5	63,131.92	30,501.03	93,632.95	871
18	55.4	31,031.34	12,021.25	43,052.59	777
19	5.0	4,549.88	972.75	5,522.63	1,105
20	169.9	135,109.61	97,227.58	232,337.19	1,367
20A	5.2	1,163.65	4,121.52	5,285.17	1,016
21	176.2	150,711.86	31,422.20	182,134.06	1,034
22	20.9	13,259.06	9,209.97	22,469.03	1,075
23	266.8	263,304.44	77,591.27	340,895.71	1,278
24	80.5	65,538.98	12,922.77	78,461.75	975
25	28.2	16,229.75	5,330.26	21,560.01	765
26	64.4	43,410.26	24,766.22	68,176.48	1,059
27	2.9	2,563.92	4,932.29	7,496.21	2,585
29	0.5	72.63	1,456.65	1,529.28	3,059
30	21.9	12,375.09	8,875.02	21,250.11	970
31	22.7	29,028.11	12,747.76	41,775.87	1,840
32	22.7	26,187.29	2,987.72	29,175.01	1,285
34	124.2	140,841.50	33,651.01	174,492.51	1,405
41	70.7	72,526.57	11,381.93	83,908.50	1,187
42	52.5	53,177.21	15,350.98	68,528.19	1,305
44	118.9	135,913.19	111,999.22	247,912.41	2,085

Table No. 48

Highway	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
45	106.1	$ 126,560.32	$ 12,049.29	$ 138,609.61	$1,306
49	1.6	3,671.24	981.76	4,653.00	2,908
50	123.4	81,597.71	47,773.28	129,370.99	1,048
52	35.1	42,206.32	33,027.63	75,233.95	2,143
57	1.6	2,081.83	1,289.21	3,371.04	2,107
59	189.9	223,877.50	112,487.29	336,364.79	1,771
67	45.1	30,027.69	13,570.03	43,597.72	967
68	81.1	93,223.04	20,093.35	113,316.39	1,397
75	91.7	101,427.45	66,299.86	167,727.31	1,829
83	333.1	278,176.39	133,091.70	411,268.09	1,235
89	10.0	12,472.95	5,352.29	17,825.24	1,783
100	39.9	162,795.13	84,354.45	247,149.58	6,194
101	40.2	112,209.72	56,792.06	169,001.78	4,204
	6 630.5	$6,466,226.72	$3,469,382.31	$9,935,609.03	$1,498

*The "Cost per km" is rounded off to the nearest dollar and includes overheads

Table No. M9

MAINTENANCE
PROVINCIAL ROADS
APPROPRIATION 15-7B

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
200	Emerson - P.T.H. No. 100	95.8	$ 98,088.95	$ 49,318.34	$147,407.29	$1,539
201	Piney - P.T.H. No. 34	233.5	255,102.33	65,734.26	320,836.59	1,374
202	Birds Hill - Lockport	15.0	7,230.98	1,939.70	9,170.68	611
203	Piney - Woodridge - P.T.H. No. 12	46.4	34,000.50	8,566.51	42,567.01	917
204	P.T.H. No. 101 - East Selkirk	29.6	54,266.77	38,366.90	92,633.67	3,130
205	Sarto - Sperling	81.4	92,991.76	30,019.70	123,011.46	1,511
206	P.T.H. No. 52 - Lockport	59.9	88,276.22	25,917.57	114,193.79	1,906
207	East of Ste. Anne - P.T.H. No. 1E. - P.R. No. 213	57.1	54,917.22	47,946.96	102,864.18	1,801
208	Vita - P.T.H. No. 12	17.2	4,800.73	3,805.13	8,605.86	500
209	Vita - Emerson	46.2	35,249.73	5,965.62	41,215.35	892
210	P.T.H. No. 12 - Ste. Anne - Ile des Chenes	100.3	66,115.61	44,632.55	110,748.16	1,104
211	Pinawa - P.T.H. No. 11	14.0	22,832.58	6,043.49	28,876.07	2,063
212	P.R. No. 206 - East Selkirk	23.7	15,387.74	11,127.80	26,515.54	1,119
213	Hazelridge - P.T.H. No. 59	25.9	34,127.22	13,253.74	47,380.96	1,829
214	P.T.H. No. 44 - Milner Ridge - P.T.H. No. 11	25.9	26,783.54	7,399.94	34,183.48	1,320
215	Beausejour - P.T.H. No. 12	9.8	6,017.27	11,146.67	17,163.94	1,751
216	P.T.H. No. 59 - New Bothwell	34.8	20,772.86	5,657.67	26,430.53	759
217	Rosa - St. Jean Baptiste	37.8	36,039.56	6,241.99	42,281.55	1,119
218	Ridgeville - St. Malo	29.5	35,986.35	5,432.39	41,418.74	1,404

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
220	P.T.H. No. 9 - P.R. No. 223	20.3	$ 28,531.81	$ 2,802.95	$ 31,334.76	$1,544
221	P.T.H. No. 101 - Rosser - P.T.H. No. 26	48.0	43,118.56	17,225.08	60,343.64	1,257
222	Gimli - Hnausa	31.4	27,182.73	8,945.65	36,128.38	1,151
224	P.R. No. 325 - Fisher Bay	45.1	39,652.33	17,106.32	56,758.65	1,259
225	Whytewold - P.T.H. No. 8	6.3	3,354.42	9,788.43	13,142.85	2,086
226	P.T.H. No. 68 - P.R. No. 233	14.8	11,382.74	5,563.88	16,946.62	1,145
227	Warren - Westbourne	69.0	144,555.73	9,759.35	154,315.08	2,236
228	P.T.H. No. 8 - P.R. No. 325	14.8	16,290.51	3,082.06	19,372.57	1,309
229	Winnipeg Beach - Clarkleigh	76.1	44,618.34	24,468.65	69,086.99	908
230	P.T.H. No. 27 - Selkirk	10.6	27,329.58	10,260.81	37,590.39	3,546
231	Gimli - Narcisse	38.8	18,145.63	9,771.04	27,916.67	720
232	Matlock - Winnipeg Beach	10.0	10,786.80	15,904.20	26,691.00	2,669
233	Gull Harbour - Fisher Branch	97.5	70,223.06	20,018.40	90,241.46	926
234	Riverton - Matheson Island	104.0	112,679.52	15,581.26	128,260.78	1,233
235	Mulvihill - Lake Manitoba Narrows - Ste. Rose du Lac	127.9	129,330.38	45,292.95	174,623.33	1,365
236	P.T.H. No. 101 - Balmoral	35.4	47,654.67	3,009.35	50,664.02	1,431
237	Moosehorn - Spearhill	8.7	6,071.22	1,712.60	7,783.82	895
238	The River Road - Lockport	10.9	13,777.83	10,738.48	24,516.31	2,249
239	Grahamdale - Steep Rock	20.1	21,332.09	2,898.35	24,230.44	1,205
240	Darlingford - Delta	123.9	149,330.21	37,442.06	186,772.27	1,507
241	P.T.H. No. 100 - St. Eustache	43.9	72,842.30	36,186.49	109,028.79	2,484
242	Snowflake - Lake Manitoba	153.9	194,382.71	44,162.44	238,545.15	1,550
243	Emerson - Brown	74.8	108,960.03	19,851.50	128,811.53	1,722
244	Manitou - North Rathwell	66.5	93,356.24	20,615.31	113,971.55	1,714
245	Carman - P.R. No. 258	96.1	113,271.20	36,417.05	149,688.25	1,558

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
246	St. Joseph - P.T.H. No. 75 - P.R. No. 200	53.3	$ 74,032.79	$ 10,192.78	$ 84,225.57	$1,580
247	P.T.H. No. 75 - Elm Creek	65.2	108,292.79	17,995.44	126,288.23	1,937
248	Rosenort - P.T.H. No. 6	142.7	196,254.58	38,278.21	234,532.79	1,644
249	P.T.H. No. 26 - Macdonald	29.6	38,331.71	5,646.03	43,977.74	1,486
250	Souris - Rivers - P.R. No. 359	129.2	120,311.00	24,148.84	144,459.84	1,118
251	Goodlands - Saskatchewan Boundary	57.6	65,165.08	4,451.49	69,616.57	1,209
252	P.T.H. No. 3 - Reston - Hargrave	83.7	66,348.81	8,721.75	75,070.56	897
253	Pilot Mound - P.T.H. No. 18	61.3	47,670.45	4,865.59	52,536.04	857
254	P.R. No. 251 - Oak Lake - P.T.H. No. 83	262.2	287,780.82	53,848.58	341,629.40	1,303
255	Oak Lake Resort - Saskatchewan Boundary	52.6	59,375.35	6,854.70	66,230.05	1,259
256	United States Boundary-Elkhorn-McAuley	159.3	118,267.22	13,588.12	131,855.34	828
257	Virden - Saskatchewan Boundary	37.3	74,042.38	4,616.31	78,658.69	2,109
259	Wheatland - Virden	56.3	75,648.52	8,102.34	83,750.86	1,488
260	P.T.H. No. 4 - Alonsa	72.9	62,994.45	17,904.81	80,899.26	1,110
261	Amaranth - Riding Mountain	52.8	35,146.66	10,509.17	45,655.83	865
262	Junction P.T.H. Nos. 10 & 24 - Riding Mountain National Park	62.6	70,871.69	26,974.00	97,845.69	1,563
263	Scandinavia - P.R. No. 270	29.5	15,971.25	7,115.92	23,087.17	783
265	Lake Manitoba - Clanwilliam	93.0	121,484.58	16,978.67	138,463.25	1,489
266	Bowsman - Birch River	23.8	33,359.81	19,446.66	52,806.47	2,219
267	P.T.H. No. 20 - Sifton - P.R. No. 366	50.9	36,439.77	17,375.00	53,814.77	1,057
268	P.T.H. No. 10 - Birch River	45.5	43,135.34	43,993.32	87,128.66	1,915
269	P.R. No. 490 - Ethelbert	68.6	78,426.59	23,877.94	102,304.53	1,491
270	P.T.H. No. 1W. - Basswood - P.R. No. 263	88.8	87,021.65	9,601.43	96,623.08	1,088

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
271	P.T.H. No. 20 - Pine River	32.4	$ 47,934.73	$ 22,038.84	$ 69,973.57	$2,160
272	Camperville - Duck Bay	21.6	27,702.59	5,555.21	33,257.80	1,540
273	Fishing River - P.T.H. No. 10	24.0	29,761.38	7,668.28	37,429.66	1,560
274	P.T.H. No. 5 & 10 - Gilbert Plains - Ethelbert	89.0	124,548.65	46,163.19	170,711.84	1,918
275	Swan River - Saskatchewan	23.3	48,743.38	10,718.00	59,461.38	2,552
276	Ste. Rose du Lac - Skownan	114.4	101,844.01	35,952.67	137,796.68	1,205
277	P.T.H. No. 10 - Westgate	41.5	37,815.45	33,345.88	71,161.33	1,715
278	P.T.H. No. 50 - Shergrove	41.7	31,595.01	11,147.38	42,742.39	1,025
279	Bowsman - Whitefish Lake	32.8	16,337.18	10,891.79	27,228.97	830
282	Westray - Carrot River	23.8	26,498.29	10,765.08	37,263.37	1,566
283	The Pas - Saskatchewan Boundary	39.8	31,877.56	15,897.24	47,774.80	1,200
285	Rahl's Island - The Pas	15.3	21,584.28	23,039.66	44,623.94	2,917
287	Clearwater Lake - P.T.H. No. 10	19.0	47,167.23	11,455.02	58,622.25	3,085
289	P.R. No. 285 - Grace Lake	3.9	2,901.63	4,095.35	6,996.98	1,794
291	Flin Flon - Channing Lake	4.5	23,138.99	3,211.99	26,350.98	5,856
300	St. Anne's Road	5.3	2,856.27	2,590.86	5,447.13	1,028
301	Falcon Lake - West Hawk Lake	11.6	11,469.43	5,267.60	16,737.03	1,443
302	La Broquerie - Beausejour	64.7	86,332.69	13,317.91	99,650.60	1,540
303	La Broquerie - P.R. No. 200	53.0	77,284.25	12,827.68	90,111.93	1,700
304	P.T.H. No. 59 - Wadhope	202.1	187,600.13	64,058.94	251,659.07	1,245
305	P.T.H. No. 59 - Ste. Agathe - Junction P.T.H. Nos. 1 & 4	150.3	219,361.11	30,758.44	250,119.55	1,664
306	P.T.H. No. 15 - Garson	21.4	28,111.43	8,305.27	36,416.70	1,702
307	P.T.H. No. 44 - Seven Sisters Falls	78.2	37,440.51	33,590.72	71,031.23	908
308	Sprague - East Braintree	102.4	77,085.86	22,836.84	99,922.70	976
309	P.R. No. 307 - Big Whiteshell Lake	12.2	307.93	3,867.28	4,175.21	342

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
310	United States Boundary - South Junction	4.0	$ 1,218.68	$ 2,420.29	$ 3,638.97	$ 910
311	Blumenort - P.R. No. 200	40.7	59,005.47	30,996.05	90,001.52	2,211
312	Caddy Lake - P.T.H. No. 44	5.5	5,850.02	3,454.85	9,304.87	1,692
313	Pointe du Bois - P.T.H. No. 11	40.6	20,760.88	12,614.07	33,374.95	822
314	P.R. No. 315 - Cat Lake	74.0	73,248.19	10,995.70	84,243.89	1,138
315	P.R. No. 313 - Bird Lake	59.7	45,719.08	12,919.93	58,639.01	982
316	P.T.H. No. 44 - Lowland	23.7	24,212.10	4,921.70	29,133.80	1,229
317	Lac du Bonnet - P.T.H. No. 59	50.2	56,000.69	15,039.20	71,039.89	1,415
318	Otterburne - Niverville	11.9	14,052.89	2,102.54	16,155.43	1,358
319	P.T.H. No. 59 - Patricia Beach	6.0	7,722.13	1,947.12	9,669.25	1,612
320	Selkirk - Breezy Point	18.0	22,863.58	22,769.45	45,633.03	2,535
321	P.R. No. 220 - Gross Lake	29.0	31,132.21	5,081.77	36,213.98	1,249
322	Grosse Isle - P.R. No. 415	41.4	38,907.89	7,104.81	46,012.70	1,112
323	P.T.H. No. 7 - Argyle - P.R. No. 248	31.4	47,548.29	6,134.53	53,682.82	1,710
324	Camp Morton - Rembrandt	19.6	11,605.73	2,039.07	13,644.80	696
325	P.R. No. 234 - Ashern - P.R. No. 235	125.9	145,547.12	21,787.75	167,334.87	1,329
326	Arborg - P.R. No. 233	16.3	17,874.55	4,931.68	22,806.23	1,399
327	P.T.H. No. 6 - Easterville	64.9	33,759.14	51,116.79	84,875.93	1,308
328	Gypsumville - Waterhen River	63.7	65,257.84	9,752.33	75,010.17	1,178
329	Riverton - Broad Valley	47.8	65,359.06	13,262.35	78,621.41	1,645
330	Morris - P.T.H. No. 100	47.3	90,121.95	8,158.58	98,280.53	2,078
331	Fortier - Portage la Prairie	28.0	25,298.29	8,237.03	33,535.32	1,198
332	Rosenfeld - Dacotah	79.3	147,591.77	29,652.61	177,244.38	2,235
334	Domain - P.T.H. No. 6	57.8	108,325.61	24,198.13	132,523.74	2,293
336	P.R. No. 201 - North of Sperling	54.4	76,479.99	16,549.02	93,029.01	1,710
338	Thornhill - Haywood - P.R. No. 331	90.0	131,104.03	11,838.01	142,942.04	1,588
340	P.T.H. No. 3 - Douglas	101.7	72,401.72	13,387.47	85,789.19	844

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
341	Lena - Horton	34.0	$ 36,224.72	$ 3,947.27	$ 40,171.99	$1,182
342	Clearwater - Cypress River	49.7	59,172.55	5,231.45	64,404.00	1,296
343	P.T.H. No. 10 - Dand	36.2	13,304.42	338.34	13,642.76	377
344	Dunrea - Wawanesa - Brandon	79.8	94,989.69	22,771.07	117,760.76	1,476
345	P.T.H. No. 21 - Saskatchewan Boundary	65.2	33,378.76	2,817.81	36,196.57	555
346	Wakopa - Nesbitt	58.7	24,154.40	8,071.56	32,225.96	549
347	P.R. No. 348 - Hartney	40.4	27,167.93	6,122.61	33,290.54	824
348	Boissevain - P.R. No. 349	69.2	41,593.62	8,389.71	49,983.33	722
349	P.T.H. No. 10 - South of Griswold	36.4	36,016.91	978.09	36,995.00	1,016
350	P.T.H. No. 34 - MacGregor - Woodside	70.2	105,900.55	19,685.10	125,585.65	1,789
351	Sidney - Camp Hughes	35.2	17,823.84	11,432.42	29,256.26	831
352	P.T.H. No. 34 - Edrans - Birnie	92.4	142,063.67	15,409.04	157,472.71	1,704
353	P.T.H. No. 34 - Brookdale - P.T.H. No. 10	67.1	53,775.40	8,164.50	61,939.90	923
354	P.T.H. No. 21 - Strathclair - P.R. No. 359	92.4	100,180.10	21,331.90	121,512.00	1,315
355	Minnedosa - Beulah	85.8	111,802.89	12,400.33	124,203.22	1,448
357	Birnie - Erickson	35.6	9,491.92	4,604.12	14,096.04	396
359	P.R. No. 270 - Vista	59.7	78,461.82	21,625.75	100,087.57	1,677
360	McCreary - P.R. No. 235	37.0	38,938.69	5,828.38	44,767.07	1,210
361	McCreary - Mt. Agassiz Ski Resort	6.8	7,902.92	1,376.54	9,279.46	1,365
362	Dauphin - Sifton - P.R. No. 273	39.1	44,283.05	18,062.37	62,345.42	1,595
363	P.T.H. No. 83 - Saskatchewan Boundary	8.9	43,547.02	4,523.01	48,070.03	5,401
364	Rorketon - Winnipegosis	51.3	57,638.69	41,695.59	99,334.28	1,936
365	P.T.H. No. 10 Steeprock River	29.6	15,093.06	13,877.18	28,970.24	979
366	Inglis - Grandview - Birch River	222.2	265,777.72	100,306.14	366,083.86	1,648
367	Garland - P.T.H. No. 83	81.8	91,600.57	33,763.63	125,364.20	1,533

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
373	Sipiwesk Lake - P.R. No. 391	31.2	$ 45,350.36	$ 14,715.95	$ 60,066.31	$1,925
375	Paint Lake - P.R. No. 391	6.0	1,577.06	4,176.19	5,753.25	959
391	P.T.H. No. 10 - Thompson - Lynn Lake (Nelson House Road - Ruttan Lake Road excluded)	641.0	697,093.47	483,305.09	1,180,398.56	1,841
392	P.R. No. 391 - Snow Lake	42.8	41,833.75	49,168.19	91,001.94	2,126
393	P.R. No. 392 - Osborne Lake	19.0	14,411.79	10,340.51	24,752.30	1,303
394	Lynn Lake - Co-Op Point	100.9	92,165.70	22,061.96	114,227.66	1,132
395	Snow Lake - Chisel Lake	13.0	14,548.53	9,774.92	24,323.45	1,871
396	Lynn Lake - Dunphy Lakes	45.4	4,016.07	19,126.08	23,142.15	510
397	Lynn Lake - Eldon Lake	5.5	-	2,351.17	2,351.17	427
398	P.R. No. 394 - Berge Lake	1.8	4,475.01	28.04	4,503.05	2,502
399	Lynn Lake - Railway Station Road	0.5	-	83.88	83.88	168
400	P.R. No. 217 - Dufrost	11.6	7,680.39	747.44	8,427.83	727
401	Hoddinott Road	3.1	698.80	5,591.38	6,290.18	2,029
402	Sundown - P.T.H. No. 12	10.1	13,868.34	649.50	14,517.84	1,437
403	P.R. No. 216 - St. Malo	7.6	17,746.85	3,284.89	21,031.74	2,767
404	P.T.H. No. 12 - East of Marchand	24.1	19,432.58	5,094.36	24,526.94	1,018
405	P.R. No. 206 - Ile des Chenes - P.R. No. 200	23.5	64,602.09	8,253.63	72,855.72	3,100
406	Elma - Whitemouth	9.0	16,178.51	13,402.67	29,581.18	3,287
407	P.R. No. 202 - Henderson Highway	3.7	3,583.88	224.86	3,808.74	1,029
408	P.T.H. No. 11 - Seven Sisters Falls	13.7	14,135.11	6,137.54	20,272.65	1,480
409	P.T.H. No. 101 - P.R. No. 220	4.7	2,261.73	478.32	2,740.05	583
410	St. Andrews Church - P.T.H. No. 8	7.1	9,373.59	5,410.11	14,783.70	2,082
411	P.T.H. No. 6 - St. Ambroise	22.9	19,490.73	2,326.54	21,817.27	953
412	P.T.H. No. 26 - Warren	18.7	16,583.37	2,726.80	19,310.17	1,033
413	Petersfield - Gunton	19.8	26,197.45	10,767.17	36,964.62	1,867

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
414	P.R. No. 411 - Lake Francis	11.6	$ 12,756.98	$ 1,856.17	$ 14,613.15	$1,260
415	Teulon - St. Laurent	61.2	52,307.06	18,800.90	71,107.96	1,162
416	P.R. No. 415 - Inwood	14.8	9,570.89	2,681.07	12,251.96	828
417	Eriksdale - Lake Manitoba	24.6	11,141.62	1,837.50	12,979.12	528
418	Lake Manitoba - West of Mulvihill	29.1	43,025.31	5,096.63	48,121.94	1,654
419	Chatfield - Lake Manitoba	63.3	64,033.11	13,168.46	77,201.57	1,220
420	P.T.H. No. 75 - La Salle	11.9	18,499.83	2,012.90	20,512.73	1,724
421	P.T.H. No. 75 - South of Altona	20.6	22,295.57	5,979.91	28,275.48	1,373
422	P.T.H. No. 23 - Rosenort P.O.	11.6	30,999.20	1,623.26	32,622.46	2,812
423	P.R. No. 244 - Crystal City	37.5	42,320.46	11,699.35	54,019.81	1,441
424	P.T.H. No. 2 - P.R. No. 241	10.1	15,409.04	1,614.49	17,023.53	1,685
425	Saskatchewan Avenue	6.0	9,128.48	4,677.47	13,805.95	2,301
426	P.T.H. No. 1W. Poplar Point	25.3	23,697.52	4,739.05	28,436.57	1,124
427	Wilkes Avenue - West	5.5	18,308.48	2,721.47	21,029.95	3,824
428	Winkler - Roland	18.4	14,864.25	3,147.02	18,011.27	979
429	St. Adolphe - P.T.H. No. 75	1.5	1,136.49	1,038.57	2,175.06	1,450
430	P.T.H. No. 1W. - St. Ambroise	39.4	47,995.16	5,650.48	53,645.64	1,362
431	St. Leon - P.T.H. No. 23	5.0	3,475.03	7,247.21	10,722.24	2,144
432	P.R. No. 201 - Rosebank	37.5	41,131.53	9,591.21	50,722.74	1,353
433	Wendigo Road	19.6	27,252.03	4,597.95	31,849.98	1,625
434	Lake Minnewasta - Morden	1.5	2,781.79	-	2,781.79	1,855
435	P.T.H. No. 12 - P.R. No. 212	40.6	39,466.13	11,079.70	50,545.83	1,245
440	P.R. No. 253 - Mariapolis	19.2	11,275.46	3,072.13	14,347.59	747
441	P.T.H. No. 83 - Elkhorn	13.8	12,710.17	4,366.56	17,076.73	1,237
442	Mather - P.R. No. 342	19.2	13,228.76	974.70	14,203.46	740
443	Ninga - Boissevain	13.4	8,204.98	4,101.75	12,306.73	918
444	William Lake - P.R. No. 341	8.4	2,728.31	665.66	3,393.97	404

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
445	Melita - Saskatchewan Boundary	29.3	$ 6,821.50	$ 2,289.57	$ 9,111.07	$ 311
446	Max Lake - P.T.H. No. 3	12.1	6,664.94	668.82	7,333.76	606
447	P.R. No. 254 - Napinka - P.T.H. No. 83	20.1	14,956.04	2,973.75	17,929.79	892
448	P.R. No. 343 - Elgin	11.6	16,541.03	1,752.23	18,293.26	1,577
449	P.R. No. 245 - Holland	16.4	19,817.75	8,862.07	28,679.82	1,749
450	United States Boundary - Whitewater	20.8	11,719.24	6,131.74	17,850.98	858
451	Treesbank - P.R. No. 344	5.0	4,796.69	157.01	4,953.70	991
452	Waskada - Napinka	24.8	26,154.33	1,611.97	27,766.30	1,120
453	Rounthwaite - P.T.H. No. 10	11.4	9,972.66	1,072.30	11,044.96	969
454	P.R. No. 346 - West of Souris	9.8	12,568.45	3,171.49	15,739.94	1,606
455	P.T.H. No. 1W. - P.T.H. No. 21	14.2	28,293.07	2,560.08	30,853.15	2,173
457	P.R. No. 340 - Brandon	16.7	4,180.38	662.57	4,842.95	290
458	P.R. No. 251 - Melita	19.8	31,910.22	1,777.65	33,687.87	1,701
459	Brandon - P.T.H. No. 1W.	9.8	11,259.11	1,675.96	12,935.07	1,320
460	Gladstone - P.R. No. 265	20.0	36,608.55	8,002.56	44,611.11	2,231
461	P.R. No. 242 - P.T.H. No. 34	17.5	17,763.77	2,516.03	20,279.80	1,159
462	P.R. No. 265 - Glenella - P.T.H. No. 5	57.1	50,719.11	17,770.31	68,489.42	1,199
463	P.T.H. No. 21 - P.R. No. 254	3.7	3,012.08	83.77	3,095.85	837
464	P.T.H. No. 1W. - Brookdale - P.T.H. No. 4	37.7	39,686.39	3,235.51	42,921.90	1,139
465	P.R. No. 258 - Rapid City Junction	29.5	18,258.93	3,981.21	22,240.14	754
466	Cordova - North of Franklin	22.5	23,255.75	7,670.84	30,926.59	1,375
467	South of Miniota-Saskatchewan Boundary	32.8	31,943.16	5,737.62	37,680.78	1,149
468	Chater - North of Moore Park	33.2	33,754.95	2,637.61	36,392.56	1,096
469	P.R. No. 354 - Hamiota - P.R. No. 254	26.6	35,957.17	8,496.91	44,454.08	1,671
470	Hamiota - P.R. No. 250	69.5	43,101.58	26,816.01	69,917.59	1,006
471	Neepawa - P.R. No. 250	30.9	36,159.59	6,064.10	42,223.69	1,366

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
472	P.T.H. No. 4 - Vista	17.2	$ 14,919.87	$ 4,690.38	$ 19,610.25	1,140
473	P.T.H. No. 10 - Newdale	19.6	15,576.60	6,125.53	21,702.13	1,107
474	Arrow River - Solsgirth	45.4	41,675.87	7,376.18	49,052.05	1,080
475	Foxwarren - P.T.H. No. 41	8.4	8,334.62	904.94	9,239.56	1,100
476	P.T.H. No. 4 - Angusville-P.R. No. 254	36.1	40,516.88	15,252.20	55,769.08	1,545
477	P.T.H. No. 21 - P.R. No. 254	11.6	10,147.71	828.12	10,975.83	946
478	Saskatchewan Boundary - Binscarth - North of Inglis	89.3	65,368.41	33,992.01	99,360.42	1,113
479	Angusville - P.T.H. No. 41	18.0	17,949.86	7,727.78	25,677.64	1,427
480	P.T.H. No. 5 - Makinak - Dauphin Lake	61.6	70,778.82	20,078.73	90,857.55	1,475
481	Crane River - P.R. No. 364	43.8	41,275.70	8,470.92	49,746.62	1,136
482	P.T.H. No. 83-Dropmore-P.T.H. No. 5	46.7	11,519.67	12,165.04	23,684.71	507
483	Merridale - P.T.H. No. 83	19.0	12,144.07	8,289.18	20,433.25	1,075
484	P.T.H. No. 5 - North of Makaroff	33.0	29,675.41	13,786.43	43,461.84	1,317
485	P.R. No. 366 (South of Minitonas) - P.R. No. 486	16.4	15,698.18	14,612.22	30,310.40	1,848
486	P.R. No. 586 (South of Durban) - P.T.H. No. 83	26.9	22,288.86	16,296.91	38,585.77	1,434
487	Kenville - P.R. No. 588	15.1	23,730.80	4,604.03	28,334.83	1,876
488	P.R. No. 486 - P.T.H. No. 10 (East of Swan River)	21.6	24,208.86	15,767.68	39,976.54	1,851
489	Garland - P.T.H. No. 20	50.4	47,822.22	23,071.19	70,893.41	1,406
490	P.R. No. 481 (West of Toutes Aides) - P.R. No. 269	12.9	9,038.92	1,452.95	10,491.87	813
491	P.R. No. 362 Cross of Freedom	9.5	10,368.08	1,765.12	12,133.20	1,277
500	P.T.H. No. 12 (South Junction)	8.2	1,308.25	2,099.96	3,408.21	416
501	Ross - P.T.H. No. 1E.	26.2	17,898.53	8,554.87	26,453.40	1,010

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
502	Lac du Bonnet - P.R. No. 313 - P.T.H. No. 11	8.2	$ 9,382.03	$ 15,661.35	$ 25,043.38	3,054
503	P.R. No. 308 - P.T.H. No. 1E.	34.6	14,662.12	2,207.37	16,869.49	488
504	Victoria Beach - Lake Winnipeg	2.3	106.93	832.35	939.28	408
505	Whitemouth River - P.R. No. 503	5.2	1,970.77	349.28	2,320.05	446
506	Prawda - P.T.H. No. 11 - P.T.H. No. 1E.	49.1	48,463.81	3,564.57	52,028.38	1,060
507	P.R. No. 506 - Medika	4.0	3,202.24	2[illegible].41	3,463.65	866
508	East Selkirk - St. Peters Church	13.2	6,368.79	6,454.58	12,823.37	911
509	P.T.H. No. 59 - P.R. No. 204	1.6	1,127.02	1,114.04	2,241.06	1,401
510	P.T.H. No. 44 - P.R. No. 435	11.8	460.87	563.73	1,024.60	87
511	P.R. No. 518 - Oak Point	20.0	17,430.38	15,073.10	32,503.48	1,625
512	P.R. No. 419 - P.T.H. No. 68	15.6	10,876.50	2,200.94	13,077.44	838
513	P.T.H. No. 6 - Gypsumville - Anama Bay	82.7	54,115.65	27,210.86	81,326.51	983
514	P.R. No. 235 - South of Ashern	29.5	33,642.15	4,926.33	38,568.48	1,307
515	Clandeboye - P.T.H. No. 8	5.0	1,517.27	2,883.87	4,401.14	880
516	P.R. No. 329 - Shorncliffe	14.8	12,074.08	2,437.74	14,511.82	981
517	Balmoral - P.R. No. 322	16.4	14,082.50	7,856.62	21,939.12	1,338
518	Woodlands - P.R. No. 229	38.3	29,695.60	7,328.61	37,024.21	967
519	Sandy Hook - P.T.H. No. 8	2.7	8,230.69	2,336.69	10,567.38	3,914
521	Rosengart - P.T.H. No. 32	5.2	6,372.10	646.75	7,018.85	1,350
522	Halbstadt Road	6.6	10,996.76	317.60	11,314.36	1,714
523	P.T.H. No. 75 - Sewell - P.R. No. 332	15.3	16,651.62	1,940.50	18,592.12	1,215
524	Blumenort - P.R. No. 243	3.2	2,368.44	82.68	2,451.12	766
525	United States Boundary - P.R. No. 308	9.7	10,211.98	1,186.48	11,398.46	1,175
526	P.T.H. No. 26 - North of High Bluff	6.3	8,675.44	4,866.76	13,542.20	2,150
528	Kaleida - P.T.H. No. 3	7.1	56.49	1,044.31	1,100.80	155
530	P.T.H. No. 23 - Bruxelles	10.0	6,798.83	1,148.57	7,947.40	795

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
532	Mariapolis - P.R. No. 245	11.6	$ 4,977.51	$ 717.84	$ 5,695.35	491
541	North of Mather - P.R. No. 258	15.8	7,726.04	582.76	8,308.80	526
542	P.R. No. 257 - P.T.H. No. 1	21.2	5,549.84	466.12	6,015.96	284
543	P.T.H. No. 21 (South of Griswold) - P.R. No. 254	11.6	9,557.29	641.06	10,198.35	879
545	P.T.H. No. 41 (South of St. Lazare) - Saskatchewan Boundary	8.9	18,476.49	167.78	18,644.27	2,095
547	P.R. No. 482 - Saskatchewan Boundary	3.2	3,071.96	179.36	3,251.32	1,016
561	Justice - Forrest	11.6	13,257.61	250.42	13,508.03	1,164
562	Polonia - Mountain Road	6.4	5,744.38	2,330.20	8,074.58	1,262
563	P.T.H. No. 10 - P.R. No. 270 - (North of Rapid City)	6.6	7,428.47	2,723.95	10,152.42	1,538
564	Minnedosa - Bethany	13.2	11,308.97	3,306.94	14,615.91	1,107
565	P.T.H. No. 41 (South of McAuley) - Saskatchewan Boundary	5.0	5,197.99	2,182.45	7,380.44	1,476
566	Oakburn - P.R. No. 359	22.2	35,646.43	3,849.34	39,495.77	1,779
567	Lynch's Point - P.T.H. No. 50	7.6	5,875.04	2,437.38	8,312.42	1,094
568	P.T.H. No. 83 - Wattsview -P.R. No. 475	30.1	24,156.78	16,651.94	40,808.72	1,356
569	Lake Manitoba - P.T.H. No. 50	5.8	6,231.45	1,215.48	7,446.93	1,284
571	P.T.H. No. 41 (North of McAuley) - Saskatchewan Boundary	6.6	5,949.56	865.21	6,814.77	1,033
573	Lake Manitoba - P.T.H. No. 59 - (South of Embury)	8.2	7,065.45	344.08	7,409.53	904
575	P.R. No. 260 - Birnie	25.6	22,411.79	5,147.98	27,559.77	1,077
577	P.R. No. 566 - North of Rossburn	24.8	18,663.69	3,655.22	22,318.91	900
579	P.T.H. No. 83 - Millwood - P.R. No. 478	26.4	25,250.58	5,070.59	30,321.17	1,149
581	Ste. Amelie - P.T.H. No. 5	8.2	7,397.42	1,598.19	8,995.61	1,097

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
582	Makinak - Ochre River	16.4	$ 21,871.93	$ 4,284.56	$ 26,156.49	1,595
583	Shevlin - P.T.H. No. 83	15.3	20,311.14	8,010.56	28,321.70	1,851
584	P.R. No. 366 - Merridale - P.R. No. 594	73.9	77,452.73	39,031.51	116,484.24	1,576
585	P.R. No. 276 - West of Rorketon	18.0	14,071.56	8,490.30	22,561.86	1,253
586	P.T.H. No. 83 - Durban	24.5	26,483.84	23,726.62	50,210.46	2,049
587	P.R. No. 268 - Bowsman	19.3	22,423.41	8,781.57	31,204.98	1,617
588	Benito - P.R. No. 269	40.6	51,016.15	30,204.65	81,220.80	2,001
589	P.R. No. 478 - P.T.H. No. 83	8.4	15,154.38	4,911.62	20,066.00	2,389
591	P.R No. 584 - Roblin	8.7	10,564.07	5,389.49	15,953.56	1,834
592	Deepdale - P.T.H. No. 83	9.8	9,687.96	4,146.04	13,834.00	1,412
593	P.T.H. No. 83 - Deepdale	9.7	8,269.21	4,581.96	12,851.17	1,325
594	P.T.H. No. 83 - Boggy Creek	20.0	32,381.29	6,681.02	39,062.31	1,953
666	Access Roads	380.9	445,786.61	430,360.83	876,147.44	2,300
Other Roads	District 10	500.5	433,914.98	279,154.99	713,069.97	1,425
		12 799.0	$13,435,122.12	$4,604,940.47	$18,040,062.59	$1,409

*1. Cost per kilometre is rounded off to the nearest dollar.
2. Cost per kilometre including overheads is $1,409 dollars.

Manitoba

Highways and
Transportation

BRIDGE SECTION

TABLE B1

Table No. B1

BRIDGES AND TRANSPORTATION STRUCTURES
CONSTRUCTED, RECONSTRUCTED AND REPAIRED
INCLUDING OPERATION OF FERRIES
APPROPRIATIONS 15-7B, 15-7A

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7B Provincial Trunk Highways & Provincial Roads				
5	0810	Turtle River R.M. of Ste. Rose	Deck & Joint Repairs	$ 6,371.91
	0820	C.N.R. Overpass R.M. of Hillsburg	Timber Bridge Repair	36,539.62
6	0816	Saskatchewan River L.G.D. of Grand Rapids	Repair Damaged Expansion Plate	1,216.72
	0817	Saskatchewan River L.G.D. of Grand Rapids	Replace Navigation Light System	5,878.97
9	0812	North Perimeter Overpass R.M. of West St. Paul	Repair Damaged Precast Girder	30.60
83	0819	Jackson Creek & Gainsborough Creek R.M. of Arthur	Emergency Bridge Repairs	20,106.88
	0823	Graham Creek R.M. of Arthur	Guardrail Replacement	492.00

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
100 & 101	0803	Perimeter Route Bridges	Bridge Maintenance	$ 4,600.17
101	0814	Red River R.M. of East & West St. Paul	Installation of Navigation Lights	11,764.39
204	0811	Red River R.M. of St. Clements	Bridge Maintenance	2,008.25
260	0801	Big Grass River R.M. of Glenella	Bridge Repairs	6,523.89
261	0821	Angle Drain R.M. of Glenella	Bridge Maintenance; Levelling Superstructure	28,738.32
304	0813	Sandy River E.D. of Rupertsland	Bridge Maintenance; Levelling Superstructure	14,831.27
311	0824	Seine River R.M. of Ste. Anne	Guardrail Replacement	3,105.96
435	0825	Brokenhead River R.M. of Brokenhead	Addition of Flexbeam Guardrailing	1,154.77
462	0802	Angle Drain R.M. of Glenella	Bridge Maintenance; Levelling Superstructure	4,739.28

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
Miscellaneous				
	0800	Various	Bridge Maintenance; Lateral Restraint Rods	$ 21,490.30
	0804	Various	Painting Bridges	135,827.30
	0805	Various	Bridge Maintenance; Patching of Decks	190,964.59
	0806	City of Winnipeg	Bridge Yard Maintenance - Midland Street	8,648.59
	0807	R.M. of Dauphin	Bridge Yard Maintenance - Dauphin	6,705.37
	0808	R.M. of West St. Paul	Maintenance of Explosive Magazine Yard	385.74
	0809	R.M. of Brokenhead	Maintenance of Bridge Yard & Buildings - Beausejour	4,362.86
	0818	Various	Construction of Pavement Pressure Relief Joints	36,835.51
			Maintenance	553,323.26
340	0822	Assiniboine River R.M. of South Cypress	Operation & Maintenance of Ferry	35,000.00
			Ferries	35,000.00
	0711	Various	Implement Storage Sheds	15,001.84
			Contingencies	15,001.84

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Provincial Trunk Highway				
1	7473	Assiniboine River R.M. of Whitehead	Construction of a 127.6 m Long Reinforced Concrete Bridge	$716,311.17
	7607	Second Creek R.M. of St. Francois Xavier	Construction of a Treated Timber Bridge in North Service Road	60,694.54
3	7584	2 Creeks R.M. of Turtle Mountain	S.P.C.M.P. Arch Culvert Extensions	16,571.03
7	7577	Ross Creek R.M. of Rockwood	S.P.C.M.P. Culvert Extensions	13,834.05
10	7532	Drain R.M. of Morton	Completion of Construction of a Reinforced Concrete Culvert	6,271.76
11	7256	Whitemouth River R.M. of Whitemouth	Whitemouth River Bridge; Completion Date October 1981	5,177.50CR
12	7576	Grade Separation R.M. of Ste. Anne	Drains, Slope Protection & Sign Foundations	178,109.94
	7529	Grade Separation R.M. of Ste. Anne	Completion of Twin Reinforced Concrete Overpasses	757,188.03
23	7444	Shannon Creek R.M. of Morris	Completion of Construction of a 51.1 m Long Reinforced Concrete Bridge	89,312.36

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Provincial Trunk Highway				
30	7442	Buffalo Drain R.M. of Rhineland	Completion of Construction of an 82 m Long Reinforced Concrete Bridge	$227,375.96
59	7528	Devil's Creek R.M. of St. Clements	Completion of Construction of a 41.1 m Long Reinforced Concrete Bridge	107,501.82
	7598	Libau Drain R.M. of St. Clements	Construction of a Reinforced Concrete Box Culvert	68,734.12
	7600	Libau Drain R.M. of St. Clements	Construction of a Timber Access Bridge	21,872.65
	7612	Indian Reserve Drain R.M. of St. Clements	Construction of a Reinforced Concrete Box Culvert	64,186.67
75	7530	3 Creeks & Drains R.M. of Ritchot	Completion of Construction of 6 Timber Service Road Bridges	13,885.16
	7544	3 Creeks & Drains R.M. of Ritchot	Construction of 3 Reinforced Concrete Box Culverts	107,100.95
	7613	Drain R.M. of Ritchot	Construction of a Reinforced Concrete Box Culvert	62,275.75
Miscellaneous				
	7415	Various	General Engineering	41,541.62
	7416	Various	Subsurface Soil Exploration	46,570.73
			Provincial Trunk Highway	2,594,160.81

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Provincial Roads				
209	6461	Roseau River L.G.D. of Stuartburn	Construction of a 61.6 m Long Reinforced Concrete Bridge	$369,061.94
224	6139	3 Creeks E.D. of Interlake	Construction of 3 Standard Precast Prestressed Concrete Girder Bridges	125,985.57
261	6121	Glenella Drain R.M. of Rosedale	Completion of Construction of 3 Timber Access Bridges	16,741.97
	6478	Falmouth Drain L.G.D. of Alonsa	Construction of a Standard Precast Prestressed Concrete Girder Bridge	50,519.51
354	6143	Oak River R.M. of Blanshard	Completion of Construction of a Standard Precast Prestressed Concrete Girder Bridge	27,609.31
	6462	Oak River R.M. of Daly	Construction of 2 Standard Precast Prestressed Concrete Girder Bridges	200,809.44
357	6344	Creek R.M. of Clanwilliam	S.P.C.M.P. Culvert Construction	34,350.56
366	6158	Mitchell Creek R.M. of Grandview	Completion of Grade Work & Site Clean-up at a New Bridge	8,347.69
	6345	Harper Creek & Pleasant Valley Creek R.M. of Grandview	Construction of 2 Standard Precast Prestressed Concrete Girder Bridges	83,901.42

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Provincial Roads				
366	6479	Jackfish Creek L.G.D. of Mountain	Construction of a Standard Precast Prestressed Concrete Girder Bridge	$ 56,376.41
	6484	Drain R.M. of Grandview	Construction of a Standard Precast Prestressed Concrete Girder Bridge	26,917.37
462	6394	2 Drains R.M. of Glenella	Construction of 1 Standard Precast Prestressed Concrete Girder Bridge & 2 Timber Access Bridges	122,857.51
474	6469	Arrow River R.M. of Miniota	Construction of a Standard Precast Prestressed Concrete Girder Bridge	49,247.01
480	6468	Turtle River R.M. of Ste. Rose	Construction of a 36.1 m Long Reinforced Concrete Bridge	232,551.67
	6470	Letain Drain R.M. of Ste. Rose	Construction of a Timber Access Bridge	54,175.40
486	6136	Roaring River R.M. of Swan River	Completion of Construction of a Standard Precast Prestressed Concrete Girder Bridge	8,855.66
487	6141	Hay Creek R.M. of Swan River	Completion of Construction of a Standard Precast Prestressed Concrete Girder Bridge	25,497.96
488	6144	Burres Creek R.M. of Minitonas	Construction of a Standard Precast Prestressed Concrete Girder Bridge	78,620.86

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Provincial Roads				
489	6477	Garland River L.G.D. of Mountain	Construction of a 24.3 m Long Reinforced Concrete Bridge	$136,016.03
591	6157	Shell River R.M. of Hillsburg	Completion of Construction of a 41.8 m Bridge Utilizing a 29 m Salvaged Steel Truss & Timber Approach Spans	15,793.87
594	6406	Shell River L.G.D. of Park	Construction of a Standard Precast Prestressed Concrete Girder Bridge	120,994.23
Miscellaneous				
	6113	Various	General Engineering	62,037.43
	6114	Various	Subsurface Soil Exploration	110,308.57
Main Market	6137	Fairford River L.G.D. of Grahamdale	Completion of Site Clean-up at New Bridge	2,075.79
			Provincial Roads	2,019,653.18

Highway	Work Order No.	Location	Description of Work	Expenditure
15-7A Northern Roads				
391	400	Mitishto River E.D. of Flin Flon	Completion of a Standard Precast Prestressed Concrete Girder Bridge	14,146.87
10	427	West Baker's Narrows	Design Investigation	9,567.20
			Northern Roads	23,714.07

Appropriation Summary

15-7B	Maintenance	$ 553,323.26	
	Ferries	35,000.00	
	Contingencies	15,001.84	$ 603,325.10
15-7A	P.T.H.	2,594,160.81	
	P.R.	2,019,653.18	4,613,813.99
	Northern Roads	23,714.07	23,714.07
		GRAND TOTAL	$5,240,853.16

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Highways and
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PLANNING AND DESIGN SECTION

TABLES P1, THROUGH P4

Table No. P1

SUMMARY OF PROVINCIAL TRUNK HIGHWAYS BY SURFACE
(Kilometres)

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
1	27.2	438.3	-	-	-	465.5
1A	2.1	28.7	-	-	-	30.8
2	49.4	265.6	-	-	-	315.0
3	68.9	203.6	8.2	116.1	-	396.7
3A	-	-	11.3	-	-	11.3
5	4.2	257.1	30.5	103.4	-	395.0
5A	2.1	5.0	-	-	-	7.1
6	-	588.4	-	-	-	588.4
7	17.9	86.8	-	-	-	104.6
8	8.6	107.5	-	1.2	-	117.2
9	4.4	79.7	-	0.5	-	84.5
9A	2.9	4.9	-	-	-	7.8
10	0.4	701.2	2.0	22.9	-	726.3
10A	-	12.1	-	-	-	12.1
11	-	125.9	-	21.0	-	146.8
12	6.2	210.4	23.2	19.7	-	259.3
13	-	50.4	-	-	-	50.4
14	16.8	33.7	-	-	-	50.4
15	18.7	24.7	-	33.0	-	76.3
16	-	260.8	-	-	-	260.8
16A	-	9.1	-	-	-	9.1
17	-	1.6	22.2	83.7	-	107.5
18	-	25.0	-	30.5	-	55.4
19	-	-	-	-	5.0	5.0
20	-	39.8	34.8	95.2	-	170.0
20A	-	5.2	-	-	-	5.2
21	-	4.2	-	172.1	-	176.3
22	-	0.8	-	20.2	-	21.0
23	47.2	57.5	-	162.3	-	266.9
24	-	7.9	-	72.6	-	80.5
25	-	28.2	-	-	-	28.2
26	1.0	63.4	-	-	-	64.4
27	-	2.9	-	-	-	2.9
29	0.5	-	-	-	-	0.5
30	10.8	11.1	-	-	-	21.9
31	-	-	-	22.7	-	22.7
32	-	22.7	-	-	-	22.7
34	-	9.7	-	114.6	-	124.3
41	-	4.9	10.7	51.4	3.9	70.7
42	-	7.8	-	44.8	-	52.5
44	-	88.9	-	30.1	-	119.0

Table No. P1

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
45	-	-	-	106.1	-	106.1
49	-	-	-	1.6	-	1.6
50	-	27.7	39.0	56.8	-	123.5
52	-	30.8	4.4	-	-	35.1
57	-	-	-	1.6	-	1.6
59	21.8	128.1	-	40.1	-	189.9
67	-	17.1	11.6	16.5	-	45.1
68	-	1.6	-	79.5	-	81.2
75	1.5	104.8	-	-	-	91.8
83	-	249.2	1.2	82.1	-	333.2
89	-	-	10.0	-	-	10.0
100	24.3	15.7	-	-	-	40.0
101	38.5	1.8	-	-	-	40.3
	375.4	4452.3	209.1	1602.3	8.9	*6632.4

*Compiled as of January 1, 1984

Table No. P2

SUMMARY OF PROVINCIAL TRUNK HIGHWAYS
BY SURFACE TYPE AND NUMBER OF LANES
(kilometres)

Number of Lanes	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
2	231.9	3 948.6	207.2	1 601.7	8.9	5 998.1
4 Undivided	3.6	34.3	1.8	-	-	39.6
4 Divided	139.2	451.1	-	0.4	-	590.7
6 Undivided	-	1.0	-	-	-	1.0
6 Divided	-	1.2	-	-	-	1.2
8 Divided	-	-	-	-	-	0.0
	374.7	4 436.2	209.0	1 602.1	8.9	*6 630.6

*Compiled as of January 1, 1984.

Table No. P3

SUMMARIZED
BY
SURFACE TYPE
(kilometres)

	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
P.T.H.	374.7	4 436.0	208.9	1 602.0	8.9	6 630.5
P.R.	23.4	1 075.9	398.5	2 471.5	8 408.5	12 377.8
Totals	398.1	5 511.9	607.4	4 073.5	8 417.4	*19 008.3

*Compiled as of January 1, 1984.

Table No. P4

HIGHWAY LENGTHS
BY
ENGINEERING DISTRICTS
(Kilometres)

District No.	Provincial Trunk Highways	Provincial Roads	Total
1	635.9	1014.2	1650.1
2	539.8	1141.7	1681.5
3	516.8	1284.9	1801.7
4	715.2	989.9	1705.1
5	765.6	1033.9	1799.4
6	520.2	1135.9	1656.1
7	725.7	1289.9	2015.6
8	549.0	1280.4	1829.4
9	384.7	661.8	1046.4
10	409.1	1074.8	1483.9
11	652.6	1228.1	1880.7
12	216.2	242.4	458.5
Totals	6630.8	12 377.9	*19 008.4

*Compiled as of January 1, 1984

Manitoba

Highways and
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MISCELLANEOUS SECTION

TABLES X1, THROUGH X4

Table No. X1

SUMMARY OF CONSTRUCTION AND EXPENDITURES UNDER AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGE DISTRICTS, AIDS TO UNORGANIZED TERRITORIES AND DISORGANIZED MUNICIPALITIES

APPROPRIATION 15-7C-1 & 2

Appropriation	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Regravelling	Kilometres of Paving	Linear Metres of Culverts	Number of Bridges	Expenditure
15-7C-1 Program 05C	3.9	3.7	28.8	15.8	225.1	-	$1,006,287.61
15-7C-2 Program 05D 100%	50.9	43.7	1 176.6	-	711.9	-	1,862,718.08
15-7C-2 Program 05D 50%	101.4	39.5	1 263.1	-	1 295.7	3	995,512.89
	156.2	86.9	2 468.5	15.8	2 232.7	3	3,864,518.58

15-7C-2 Program 05D 100%	$1,862,718.08
15-7C-2 Program 05D 50%	995,512.89
Total Expenditure Under 15-7C-2 Program 05D	$2,858,330.97

15-7C-2 Program 05D 50%	$ 995,512.89
Total Expenditure Under 15-7C-2 Program 05D	2,858,330.97
Total Expenditure Prior to Credits-05D	3,853,843.86

Total Expenditure Under 15-7C-1 Program 05C $2,046,016.39

Table No. X2

AIDS TO CITIES, TOWNS, VILLAGES AND
UNINCORPORATED VILLAGE DISTRICTS

APPROPRIATION 15-7C-1 Program 05C

Cities, Towns and Villages	Kilometres of				Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure	
	Grading	Gravelling	Regravelling	Paving				Total	Government
Altona			1.6				Calcium Chloride 1.6 km	$ 8,643.90	$ 4,321.95
Arborg	0.5			0.5			Base Course 0.5 km	55,481.44	27,740.72
Beausejour							Excavate, Backfill & Base Course 0.2 km	11,040.00	5,520.00
Birtle				0.4			Calcium Chloride 2.9 km	11,944.21	5,972.10
Brandon				1.3			Curb & Gutter 0.2 km	121,668.02	60,834.01
Carman			0.4				Calcium Chloride 0.4 km	2,989.32	1,494.66
Cartwright							Seal Coat 1.6 km	2,093.57	1,046.78

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Dauphin				1.0			Base Course 1.0 km Curb & Gutter 1 037 m	$273,576.63	$136,750.00
Deloraine							Soil-Cement Stabilization & Asphalt Surface Treatment 0.2 km Seal Coat 0.2 km	9,616.04	4,808.02
Elkhorn			1.2				Calcium Chloride 1.2 km	2,277.37	1,138.68
Ethelbert							Calcium Chloride 0.8 km	1,767.60	883.80
Gladstone							Calcium Chloride 0.5 km	416.50	208.25
Glenboro							Calcium Chloride 0.4 km	496.31	248.16

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Gretna			3.1				Calcium Chloride 2.1 km Calcium Lignosulfonate 1.0 km	$ 6,819.47	$ 3,409.74
Hamiota				0.5			Base Course 0.2 km	40,804.35	20,402.18
Killarney							Seal Coat 1.6 km	33,300.47	16,650.23
Lac du Bonnet				0.5			Base Course & Shoulder Gravel 0.5 km	27,738.45	13,869.23
MacGregor							Base Course 0.2 km	42,181.54	12,500.00
Manitou				0.5	22.9			24,240.26	12,120.13
Melita							Seal Coat 0.7 km	12,092.23	6,046.11
Minnedosa			2.1					700.00	350.00
Morden			1.3				Calcium Lignosulfonate 1.3 km	5,795.23	2,897.62

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
Morris				0.7			Base Course 0.7 km Curb & Gutter 1.3 km	$ 98,084.11	$ 49,042.06
Neepawa							Base & Asphalt Surface Treatment 0.2 km	13,330.70	6,665.35
Niverville				0.2			Base Course 0.2 km Base & Asphalt Surface Treatment 2.0 km	23,948.80	11,974.40
Notre Dame de Lourdes			0.8				Sodium Lignosulfonate 0.8 km	2,826.44	1,000.00
Plum Coulee		0.5		0.5				49,337.97	24,668.99
Portage la Prairie	2.0	2.0		2.0	55.6		Excavate, Backfill, Base Course, Calcium Chloride 2.0 km	140,887.37	70,443.68
Rapid City							Calcium Chloride 0.2 km	509.29	254.65

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Russell							Engineering 0.2 km Calcium Chloride 1.8 km	$ 1,455.74	$ 727.87
Ste. Rose du Lac							Base & Asphalt Surface Treatment 0.4 km Curb & Gutter 610 m	28,243.02	14,121.51
St. Claude	0.2		1.5	0.4			Base Course Curb & Gutter 1.6 km Calcium Chloride 1.5 km	43,266.29	21,633.15
Shoal Lake							Base & Asphalt Surface Treatment 2.1 km	24,565.44	12,282.72
Snow Lake							Calcium Chloride 1.3 km	3,105.32	1,552.66
Souris				1.0			Curb & Gutter 0.7 km Chipseal 1.5 km	65,172.51	32,275.00
Steinbach				1.5			Calcium Chloride 1.0 km Base Course 1.5 km Curb & Gutter 1.5 km	180,835.84	90,417.92

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Swan River	0.5	0.5					Base & Asphalt Surface Treatment 38.2 km	$ 5,651.17	$ 2,825.58
Treherne	0.2	0.5		0.5	63.2		Base Course 0.2 km Curb & Gutter 59.5 km	68,205.64	34,102.82
Virden				1.0			Excavate & Base Course 1.0 km Curb & Gutter 509 m	117,882.23	58,941.12
Winkler			2.5	1.6			Base Course & Gravel Shoulders 1.6 km Sodium Lignosulfonate 2.5 km	62,644.96	31,200.40
Wawanesa							Base & Asphalt Surface Treatment 0.2 km	2,690.31	1,345.16
Waskada							Seal Coat 396.5 m Calcium Chloride 244 m	4,031.65	2,015.82

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Argyle Baldur							Asphalt Overlay on Flankage 91.5 m	$ 2,539.34	$ 1,269.67
L.G.D. of Alonsa Alonsa							Seal Coat 0.2 km	4,799.01	2,399.50
R.M. of Birtle Foxwarren			0.8				Dust Treatment 0.2 km	2,346.50	1,173.25
R.M. of Blanshard Cardale								848.82	424.41
R.M. of Brenda Goodlands							Seal Coat 1.0 km	9,887.14	4,943.57
R.M. of Cameron Lauder							Calcium Chloride 0.8 km	521.15	260.57
R.M. of Cartier Elie	0.2	0.4		0.4			Calcium Chloride 0.2 km Base Course 0.4 km	37,666.54	18,833.27
Springstein			0.5				Calcium Chloride 0.5 km	3,913.87	1,956.94

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Coldwell									
Lundar							Base & Asphalt Surface Treatment 0.8 km	$ 41,846.79	$ 20,923.88
R.M. of Daly									
Bradwardine							Calcium Chloride 1.0 km	882.34	400.00
R.M. of Dufferin									
Graysville			0.5				Calcium Chloride 0.5 km	1,149.77	574.89
R.M. of Franklin									
Dominion City							Asphalt Surface Treatment 0.4 km	1,563.70	781.85
Arnaud							Asphalt Surface Treatment 0.5 km	4,088.22	2,044.11
R.M. of Gimli									
South Beach							Dust Treatment 1.8 km	20,172.01	5,000.00
R.M. of Glenella									
Glenella			1.6				Calcium Chloride 1.6 km	1,867.05	933.53

Cities, Towns and Villages	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Grey									
Elm Creek			1.2				Sodium Lignosulfonate 1.2 km	$ 1,329.51	$ 664.76
Haywood			1.0				Calcium Chloride 1.0 km	1,564.96	782.48
R.M. of Hanover									
New Bothwell							Base & Calcium Chloride 0.4 km	6,092.78	3,046.39
Grunthal							Base & Asphalt Surface Treatment 0.4 km	4,046.85	2,023.43
R.M. of Harrison									
Newdale							Calcium Chloride 1.0 km	853.45	426.72
Sandy Lake							Dust Treatment 1.0 km	380.00	190.00
R.M. of Lawrence									
Rorketon							Calcium Chloride 3.3 km	7,055.09	3,527.55
R.M. of Lorne									
Mariapolis							Base & Asphalt Surface Treatment 0.2 km	5,587.32	2,793.66
Bruxelles							Base & Asphalt Surface Treatment 0.2 km	2,757.17	1,378.58

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Total Expenditure	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Minto									
Bethany							Calcium Chloride 1.0 km	$ 982.34	$ 491.17
R.M. of Montcalm									
St. Jean-Baptiste			0.8				Calcium Chloride 0.8 km	1,540.00	770.00
R.M. of Morris									
Sperling			0.8				Calcium Chloride 0.8 km	2,431.34	1,215.67
Lowe Farm			0.8				Calcium Chloride 0.8 km	1,813.35	906.68
R.M. of North Cypress									
Brookdale				0.7				37,170.84	17,500.00
R.M. of North Norfolk									
Austin							Calcium Chloride 1.6 km	1,509.80	754.90
R.M. of Ochre River									
Ochre River							Calcium Chloride 0.8 km	2,390.92	1,195.46

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Pembina Snowflake			0.7				Calcium Chloride 0.7 km	$ 2,727.18	$ 1,363.59
R.M. of Pipestone Reston							Grade, Base & Bituminous Pavement	1,585.46	600.00
R.M. of Portage la Prairie Oakville Macdonald	0.4 0.2			0.5 0.2			Base Course 0.5 km	79,013.36	38,749.07
R.M. of Rhineland Rosenfeld			0.7				Calcium Chloride 0.7 km	1,206.90	603.45
R.M. of Ritchot St. Adolphe				0.5	73.5		Base Course 0.5 km	73,146.41	36,573.21
R.M. of Riverside Dunrea							Seal Coat 0.4 km	4,396.91	2,198.45
R.M. of Roland Roland			1.5				Calcium Chloride 1.5 km	5,238.99	2,619.50

Table No. X2

Cities, Towns and Villages	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Silver Creek									
Angusville							Calcium Chloride 1.5 km	$ 1,075.00	$ 537.50
R.M. of South Norfolk									
Rathwell			1.5				Calcium Chloride 1.5 km	2,065.64	1,032.82
R.M. of Strathclair									
Strathclair							Calcium Chloride 1.2 km	1,273.23	636.62
R.M. of Thompson									
Miami			1.5				Calcium Chloride 1.5 km	2,899.14	1,449.57
Rosebank			0.4				Calcium Chloride 0.4 km	578.27	289.14
R.M. of Victoria									
Holland			0.7				Calcium Chloride 0.7 km	2,165.09	1,000.00
R.M. of Whitehead									
Alexander			0.2	0.2			Calcium Chloride 0.4 km	18,108.66	9,054.33

Cities, Towns and Villages	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Woodlands									
Warren							Install R.R. Signals	$ 6,580.47	$ 3,290.24
	4.2	3.9	29.7	16.6	225.2			$2,046,016.39	$ 1,006,287.61

WORKS AND ROADS IN UNORGANIZED TERRITORY AND DISORGANIZED MUNICIPALITIES
APPROPRIATION 15-7C-2 PROGRAM 05D

Table No. X3

Territory	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNORGANIZED									
Dauphin	0.5	0.5	39.5		12.2		Dragging & General Repairs Brushing 2.5 hectare	$ 30,897.47	$ 30,897.47
Emerson	0.8	0.8	268.0		90.0		Dragging & General Repairs	221,445.01	221,445.01
Interlake-Lakeside - Gimli	17.3	17.3	51.5		178.2		Dragging & General Repairs Brushing 15.4 hectare	188,744.06	188,744.06
Interlake	12.3	12.3	118.5		207.7		Dragging & General Repairs Brushing 3.3 hectare Asphalt Surface Treatment Repairs	361,408.03	361,408.03

Table No. X3

Territory	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNORGANIZED									
Lac du Bonnet	4.1	4.1	61.2		39.1		Dragging & General Repairs Brushing 3.1 hectare Premix Patching 20.7 m^3	$156,542.01	$156,542.01
Roblin - Russell - Minnedosa	0.8	0.8	130.4		147.1		Dragging & General Repairs Brushing 4.1 hectare	119,829.55	119,829.55
Rupertsland	6.5		40.3				Dragging & General Repairs Brushing 2.7 hectare	37,009.97	37,009.97
Springfield - La Verendrye	4.1	3.3	60.4		37.9		Dragging & General Repairs Brushing 0.4 hectare	78,842.88	78,842.88
Ste. Rose	4.9	4.9	77.3				Dragging & General Repairs	184,003.13	184,003.13
Swan River			164.2				Dragging & General Repairs Brushing 7.7 hectare	117,756.60	117,756.60

Table No. X3

Territory	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
UNORGANIZED									
The Pas			165.6				Dragging & General Repairs	$115,673.20	$115,673.20
Snowplowing - School Division Bus Routes								250,566.17	250,566.17
	51.3	44.0	1176.9		712.2			$1,862,718.08	$1,862,718.08

Table No. X4

WORKS AND ROADS IN UNORGANIZED TERRITORY AND DISORGANIZED MUNICIPALITIES
APPROPRIATION 15-7C-2 PROGRAM 05D

Territory	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
LOCAL GOVERNMENT DISTRICT									
Alexander	13.4	7.3	146.5		123.3		Dragging & General Repairs Brushing 26.6 km	$177,028.79	$ 88,514.39
Alonsa	6.5	6.5	112.7				Dragging & General Repairs Brushing 11.4 hectare	146,852.24	73,426.12
Armstrong	6.8		105.5		47.6		Dragging & General Repairs Brushing 2.1 hectare	119,456.12	59,728.06
Consol			51.5				Dragging & General Repairs Calcium Chloride 3.3 km	36,137.58	18,068.80
Fisher	23.7				160.2		Dragging & General Repairs Brushing 15.8 hectare	182,899.06	91,449.54

Table No. X4

Territory	Kilometres of Grading	Gravel-ling	Regravel-ling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
LOCAL GOVERNMENT DISTRICT									
Grahamdale	10.0	9.7	54.8		130.6		Dragging & General Repairs Brushing 13.4 hectare	$175,176.71	$ 87,588.36
Grand Rapids					96.1		Dragging & General Repairs	3,794.14	1,897.07
Mountain	13.7		181.9		360.6	2	Dragging & General Repairs Brushing 11.8 hectare	276,666.98	138,333.49
Park	0.8		284.1		27.2	1	Dragging & General Repairs Brushing 1.7 hectare	141,903.18	70,951.61
Piney	8.1	6.5	154.5		110.1		Dragging & General Repairs	186,840.41	93,420.21
Reynolds	4.5	1.6	30.6		14.1		Dragging & General Repairs Brushing 1.3 hectare	106,961.24	53,480.63

Table No. X4

Territory	Kilometres of Grading	Gravelling	Regravelling	Paving	Metres of Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
LOCAL GOVERNMENT DISTRICT									
Stuartburn	11.3	6.5	96.6		203.2		Dragging & General Repairs	159,516.15	79,758.08
Residents & Miscellaneous	2.9	1.6	44.8		23.2		Dragging & General Repairs Brushing 6.1 hectare	64,342.06	32,171.02
Snowplowing - Various	50/50 basis							$213,451.02	$106,725.51
	101.7	39.7	1263.5	-	1296.2	3		$1,991,025.68	$995,512.89

Manitoba

Highways and
Transportation

AIR AND RADIO SERVICES SECTION

TABLE AR1

AIR AND RADIO SERVICES
AIRPORT OPERATIONS AND MAINTENANCE
MARINE SERVICES

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-4C-2	*Other Expenditures*		$1,095,250.33
MWT 001	Jenpeg - Norway House	Resource Roads Maintenance	34,389.95
002	Matheson Island Ferry Access Road	Maintenance	944.95
003	Sea Falls - Cross Lake	Dock Improvements	10,668.29
15-7D-2A	Improvements to Airports		
RA 01	Swan River Airport	Grading, Granular Fill & Drainage	2,576.74
AP 039	Bissett Airstrip	Brushing Side & End Zones	3,149.97
051	Norway House	Airport Improvements	352,871.64
052	Grace Lake Airport	Hangar Repair	20,702.29
053	Pukatawagon Airport	Brushing Side & End Zones	11,813.19
054	Pukatawagon Airport	Passenger Terminal Repair	14,990.06

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-7D-2A Improvements to Airports			
AP 055	Red Sucker Lake Repair	Passenger Terminal Repair	$ 7,975.39
056	Various Airports	Purchase and Installation of Furnaces	17,532.19
057	Grace Lake Airport	Survey & Design	10,200.47
058	Grace Lake Airport	Runway Light Repair	2,151.86
	Thompson Airport	Construction of New Hanger	38,579.42
15-7D-3A Northern Development Projects (Recoverable from Northern Affairs)			
CTN 157	Various Airports	Purchase & Install Communication Equipment	40,974.13
158	Various Airport Locations	Staff Training	8,763.33
159	Shamattawa Airport	Gravel Screening	49,285.32
160	Shamattawa Airport	Equipment Shop	82,940.60
161	Ilford Airport	Airport Improvements	3,100.00
162	York Landing Airport	Equipment Shop	59,838.86
163	Ilford, Pikwitonei, Thicket Portage Airport	Purchase & Install Fire Protection Equipment	32,796.59

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-7D-3A Northern Development Projects (Recoverable from Northern Affairs)			
CTN 164	Shamattawa Airport	Purchase & Install Fire Protection Equipment	$ 10,613.74
165	Poplar Airport	Survey & Design	9,867.40
166	Wasagomach Airport	Survey & Design	6,035.92
15-7D-2H Resource Roads			
CTN 202	Jenpeg - Cross Lake Road	Grade, Gravel & Drainage	149,769.12
206	Pipestone Ferry Crossing	Pipestone Landing Repair	48,459.20
15-7D-3B Community Roads (Recoverable from Northern Affairs)			
CTN 311	Norway House	Grade & Gravel	398,605.89
			*$2,524,846.84

*Appropriation Summary

15-4C-2	1,141,253.52	15-7D-2H	198,228.32
15-7D-2A	482,543.22	15-7D-3B	398,605.89
15-7D-3A	304,215.89		

Total $2,524,846.84